

FIG. 1A Prior Art

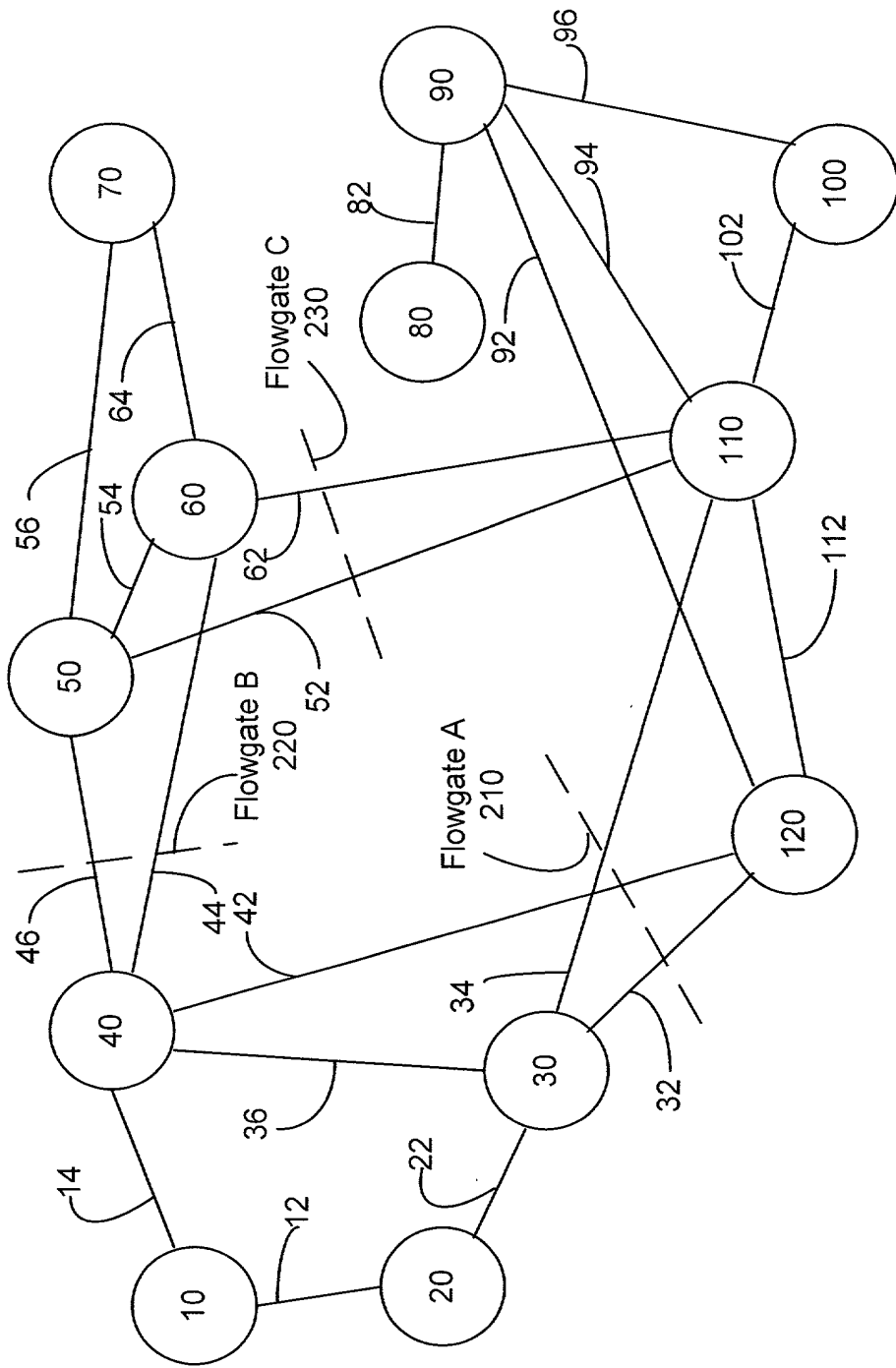


Fig. 1A Prior Art

Bus	Flowgate		
	A	B	C
1	0.70	0.30	0.30
2	0.80	0.20	0.20
3	0.90	0.10	0.10
4	0.60	0.40	0.40
5	0.60	-0.60	0.40
6	0.50	-0.50	0.50
7	0.55	-0.55	0.45
8	0.20	-0.20	-0.20
9	0.05	-0.05	-0.05
10	-0.01	0.01	0.01
11	0.00	0.00	0.00
12	-0.05	0.05	0.05

Fig. 1B
Prior Art

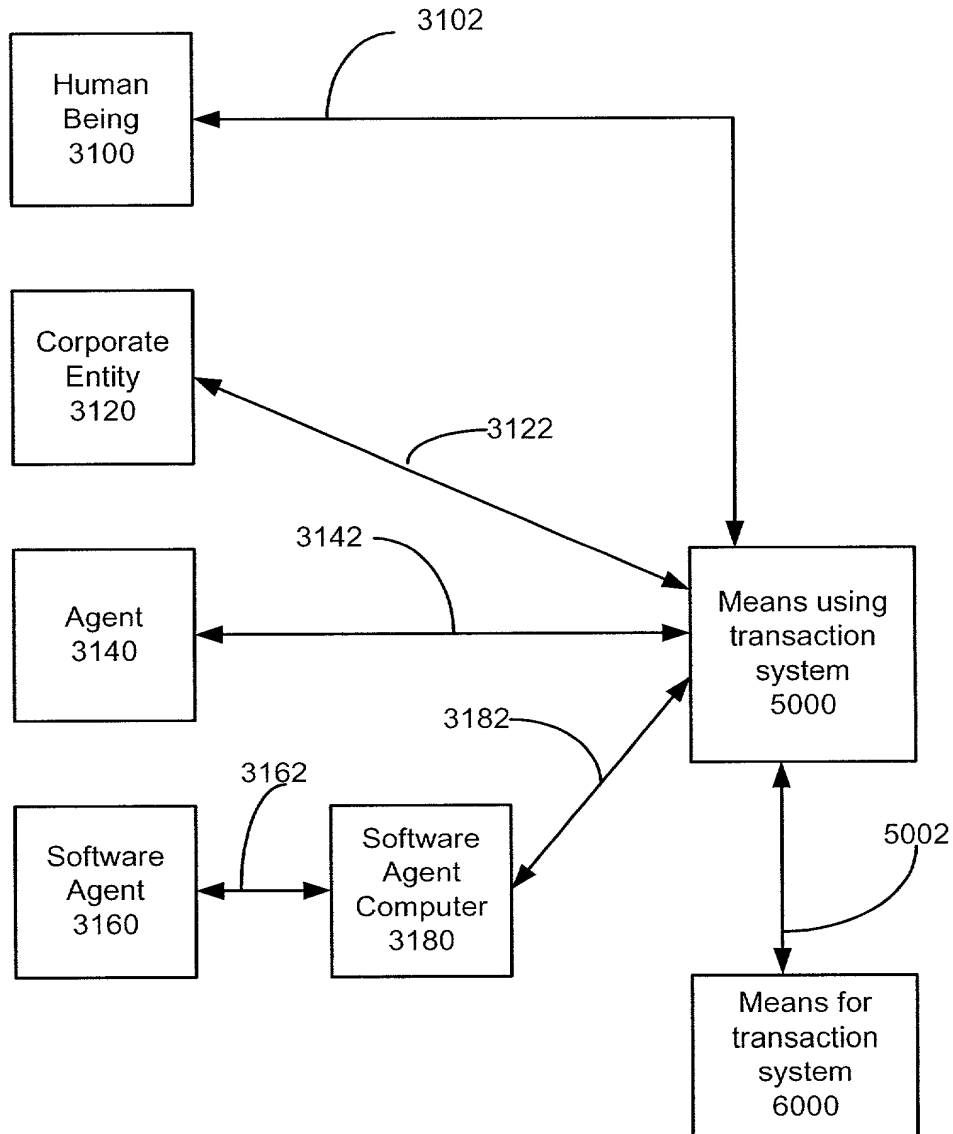


Fig. 2A

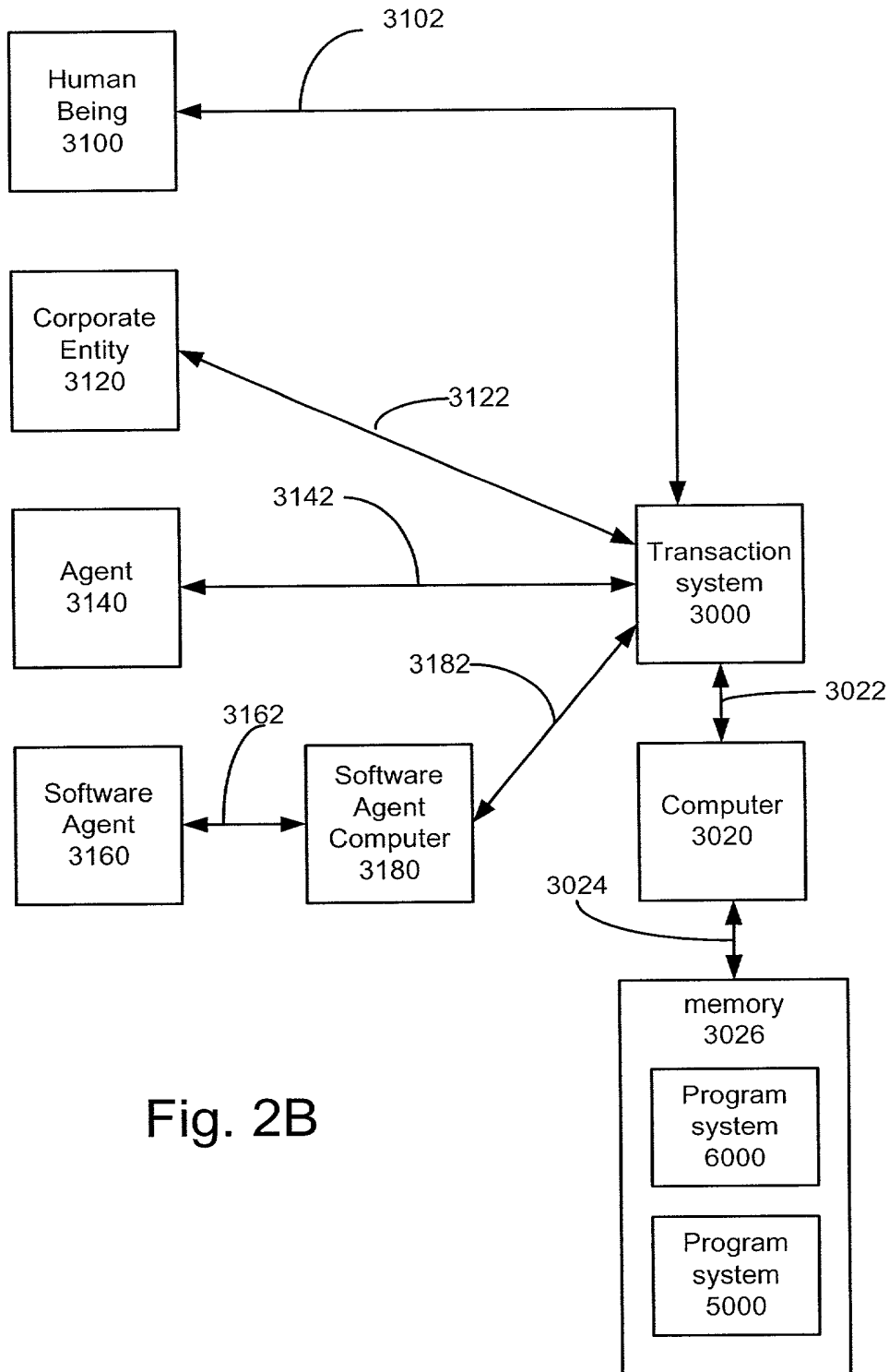


Fig. 2B

FIG. 2C

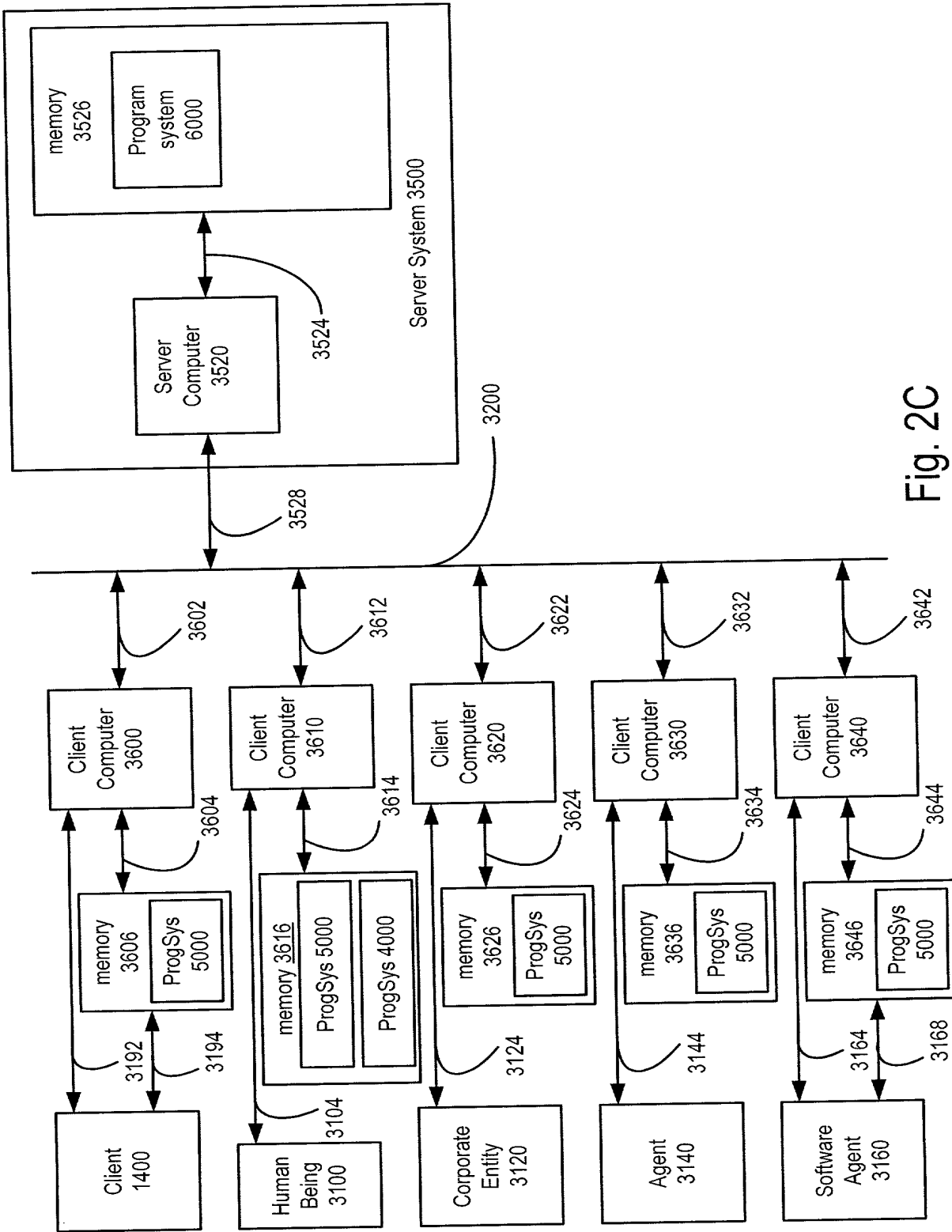


Fig. 2C

FIG. 2D

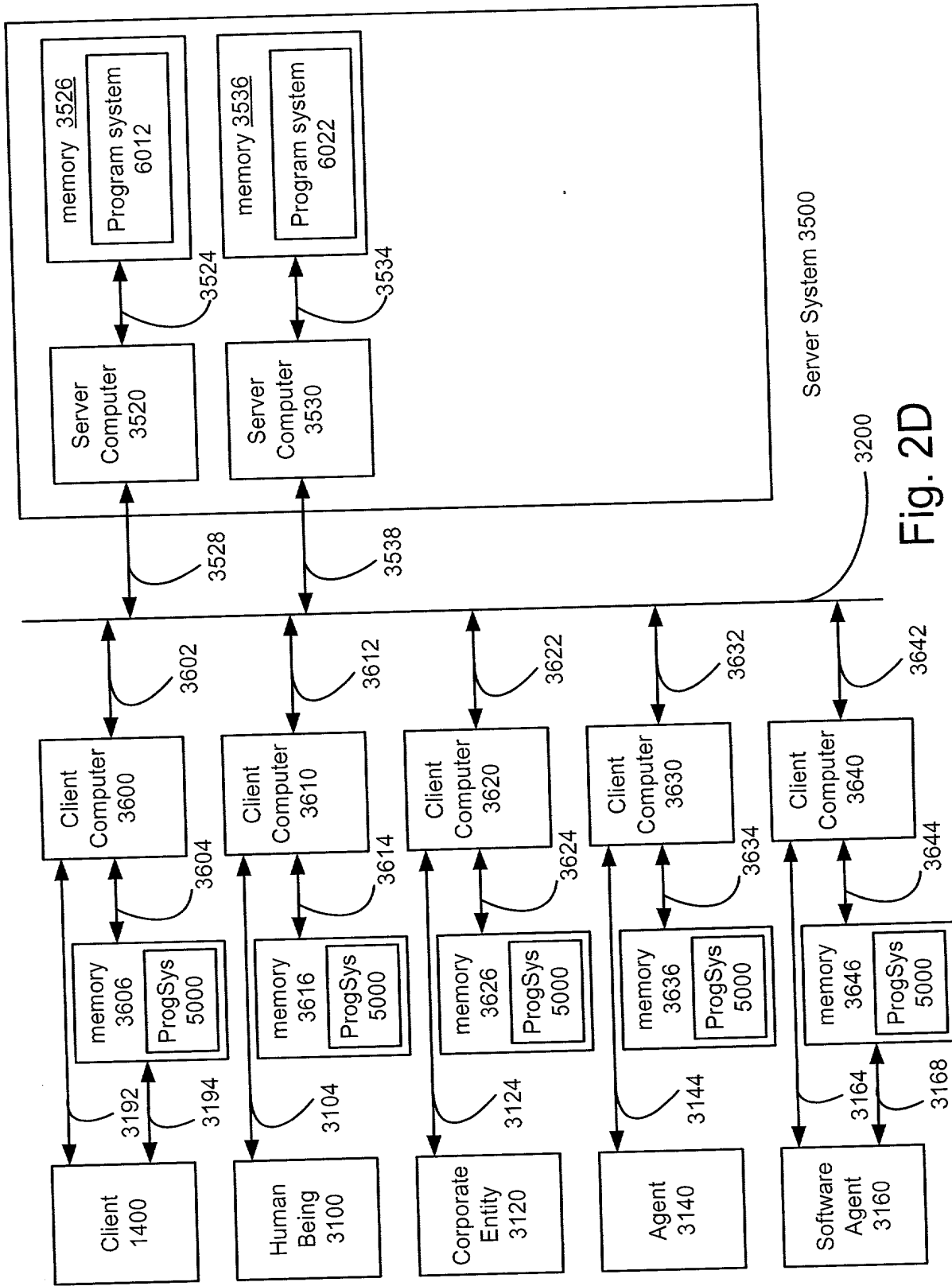


Fig. 2D

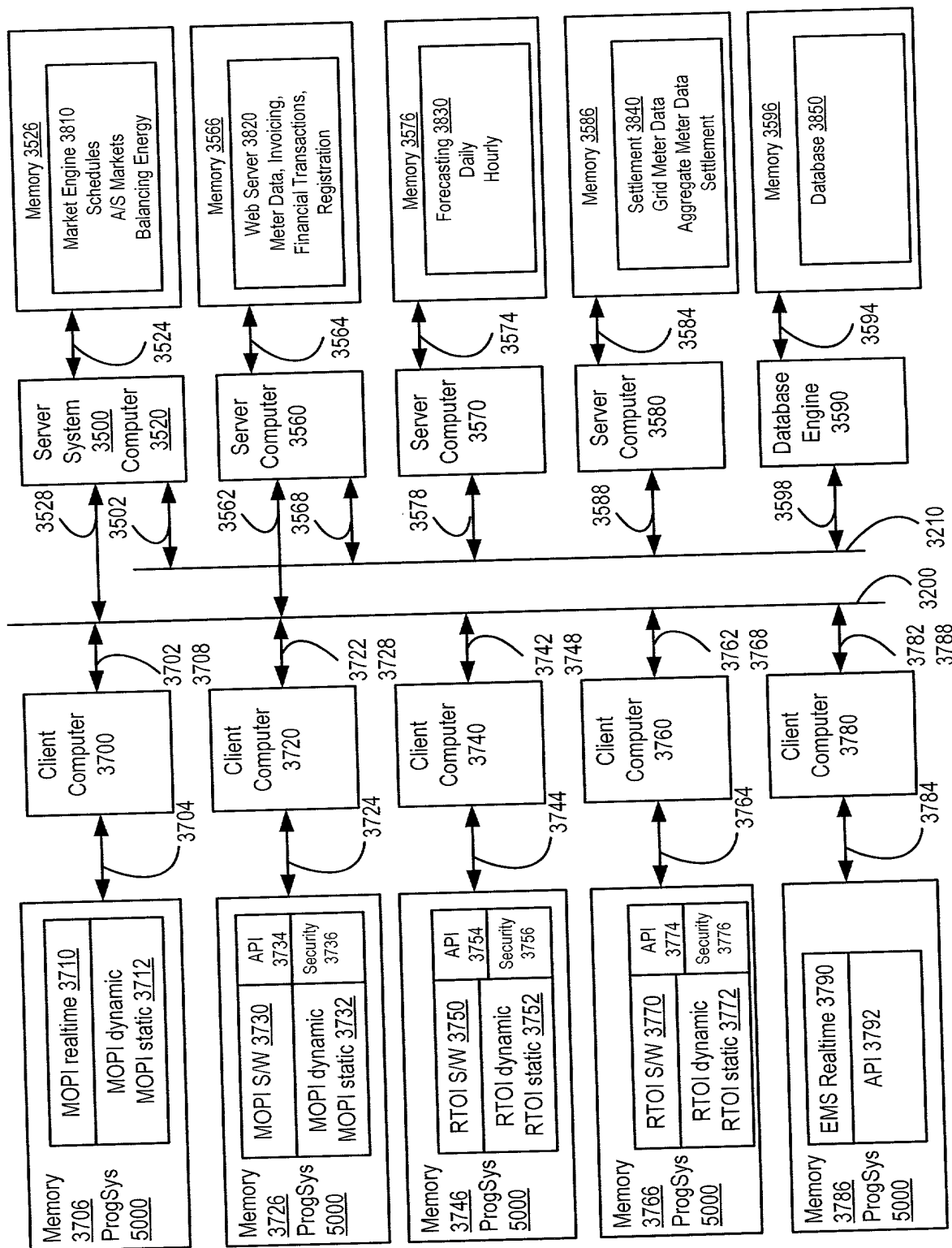
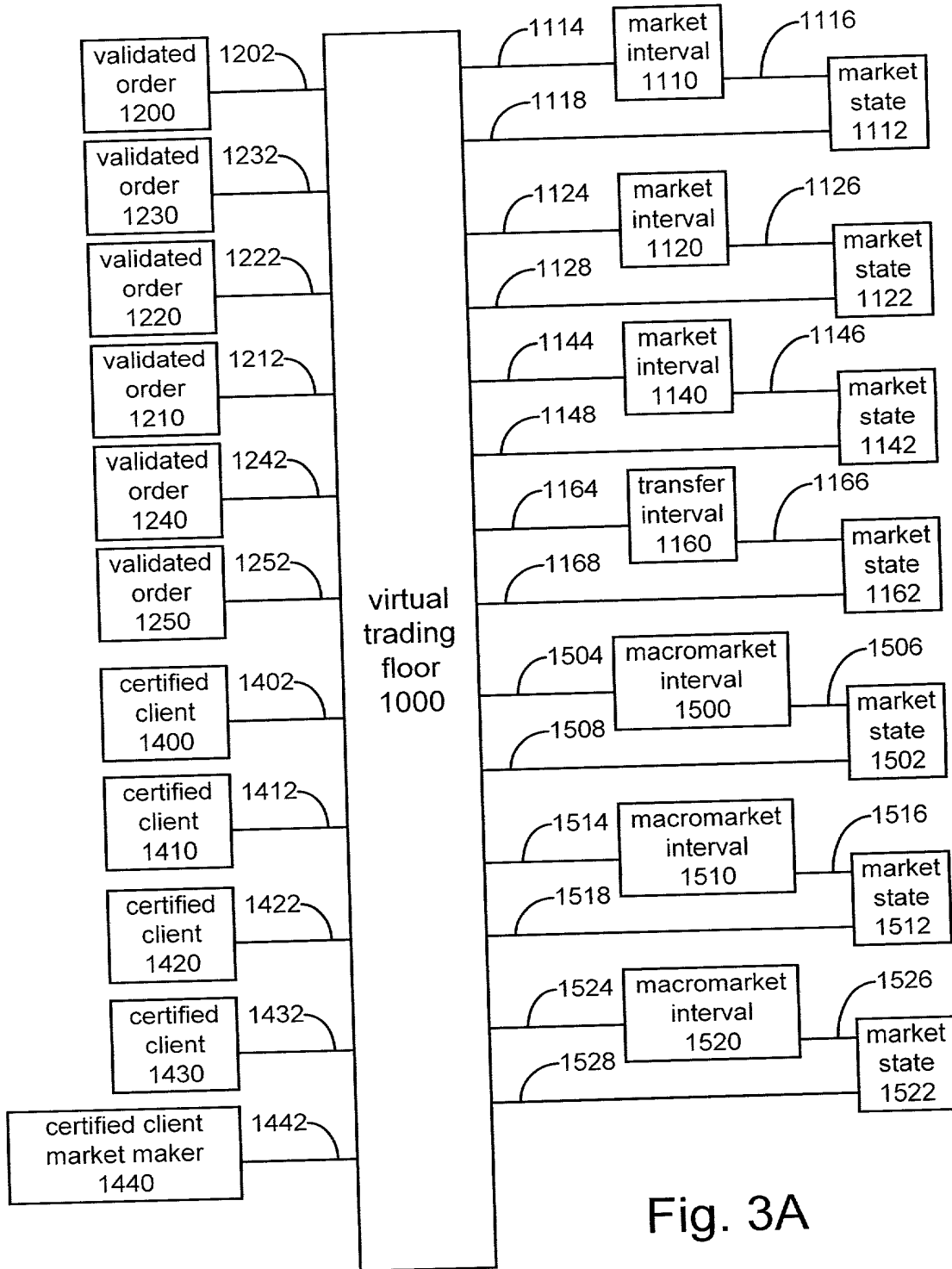


Fig. 2E

FIG. 3A



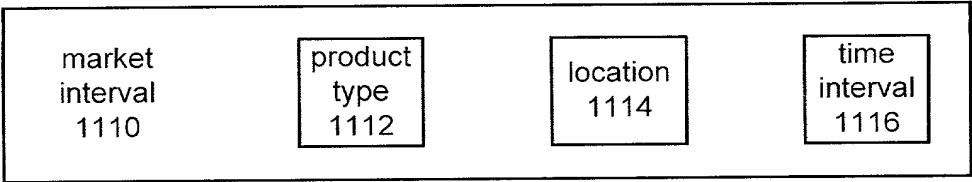


Fig. 3B

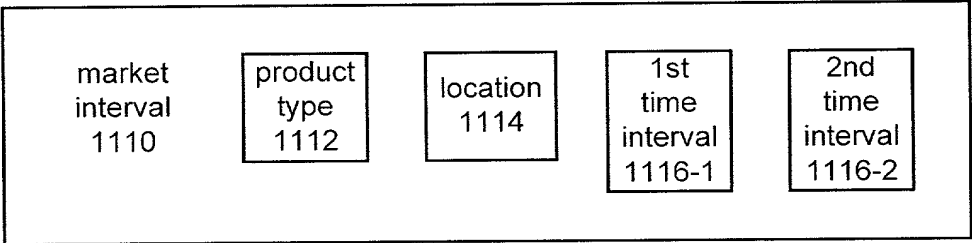


Fig. 3C

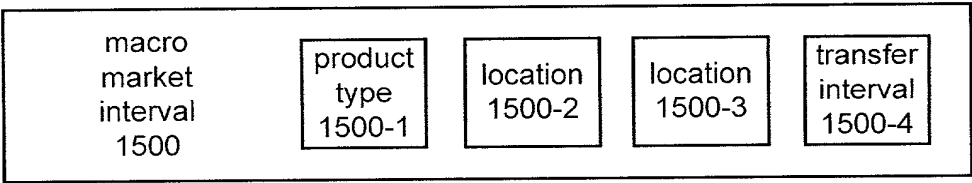


Fig. 3D

TOP SECRET 46922660

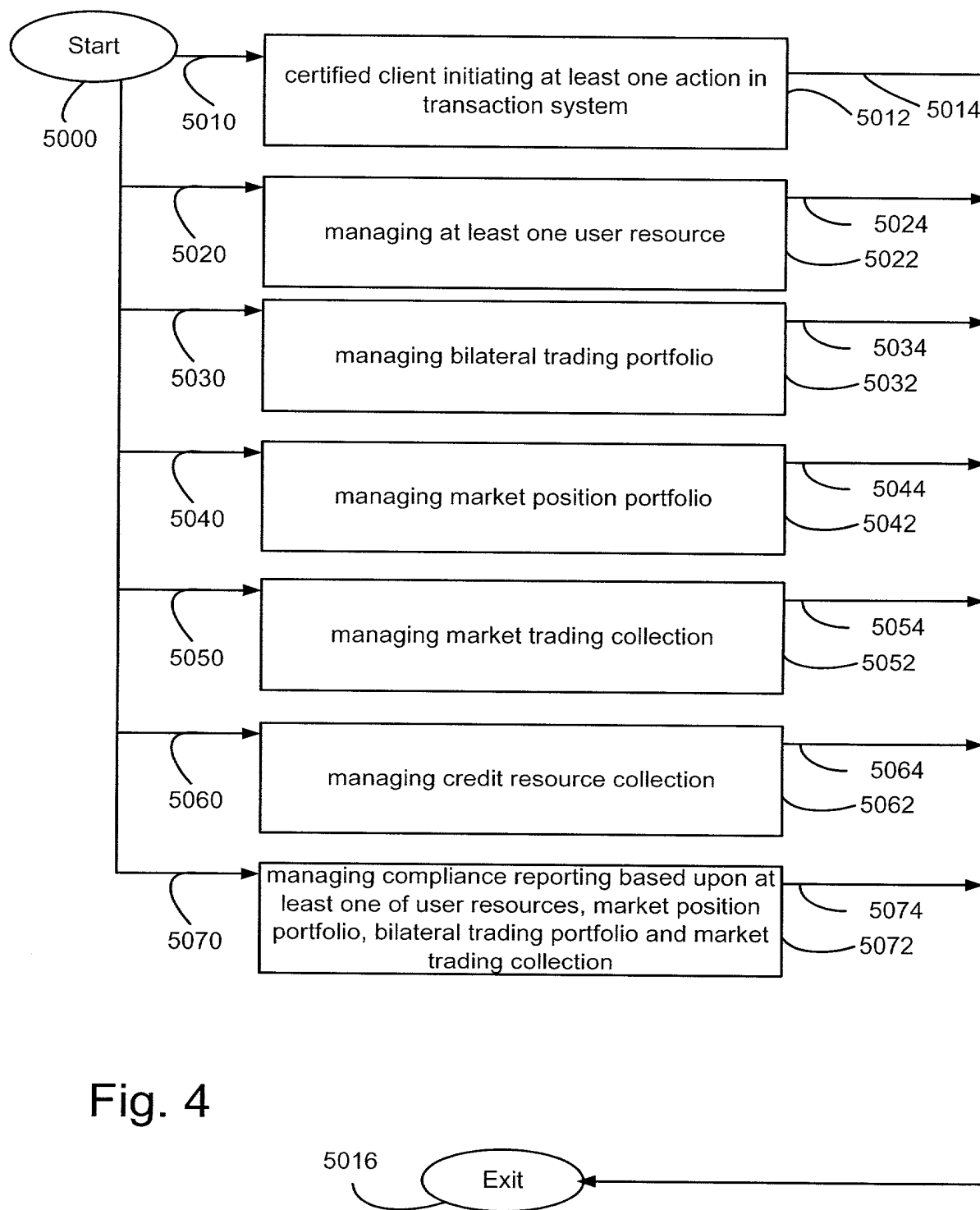
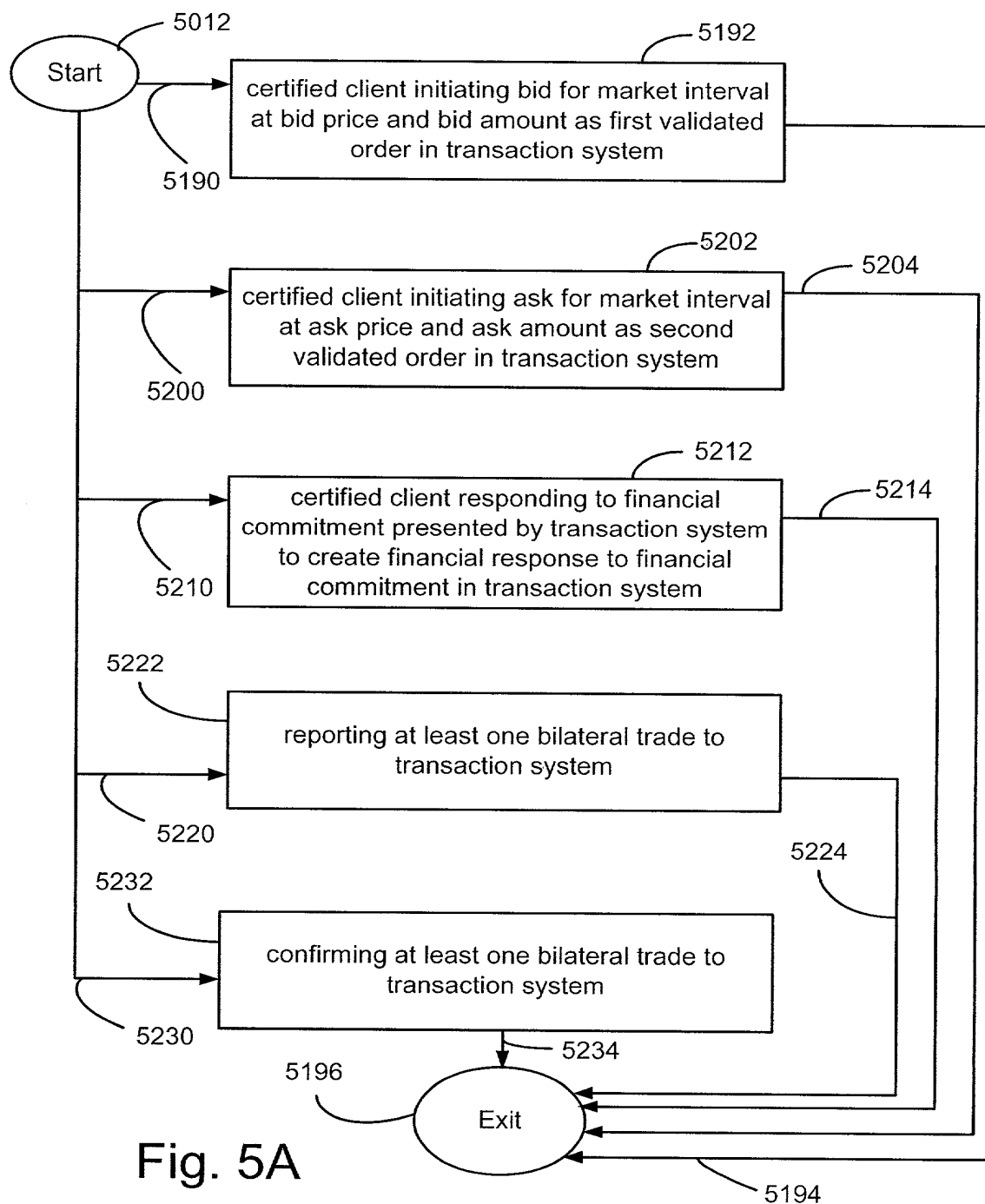


Fig. 4



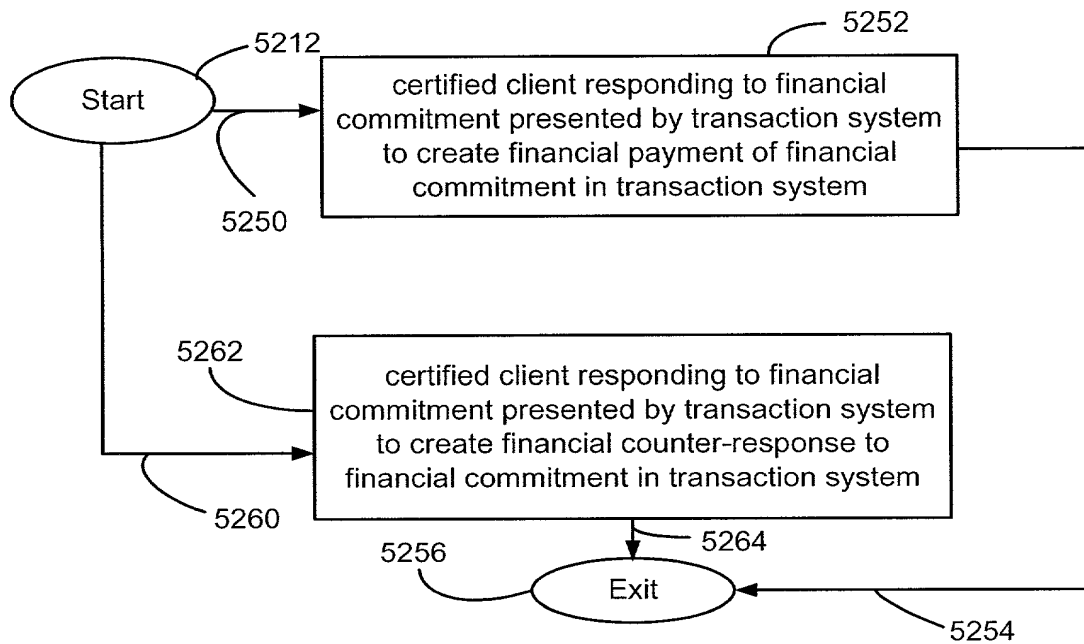


Fig. 5B

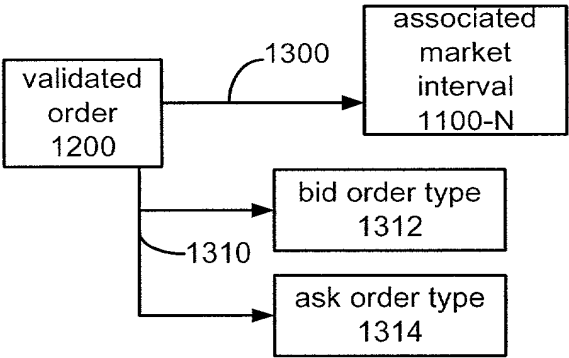


Fig. 6A

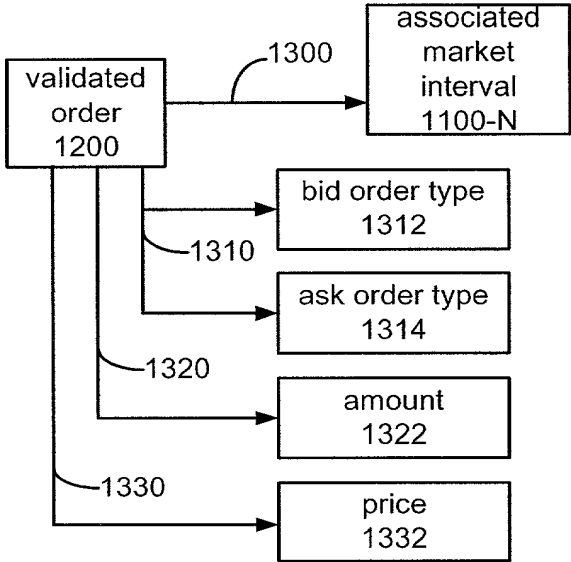
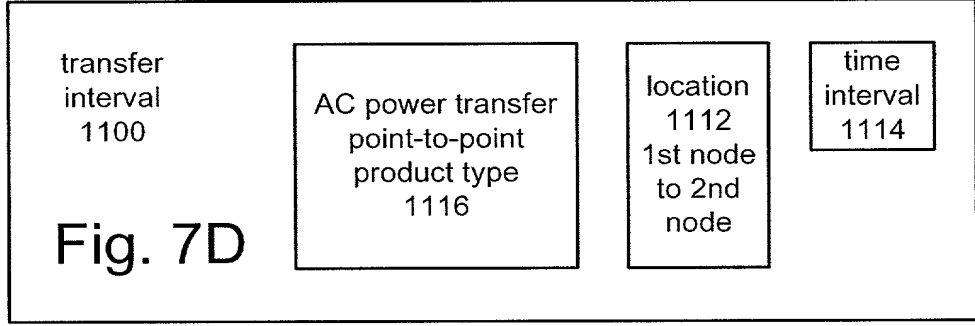
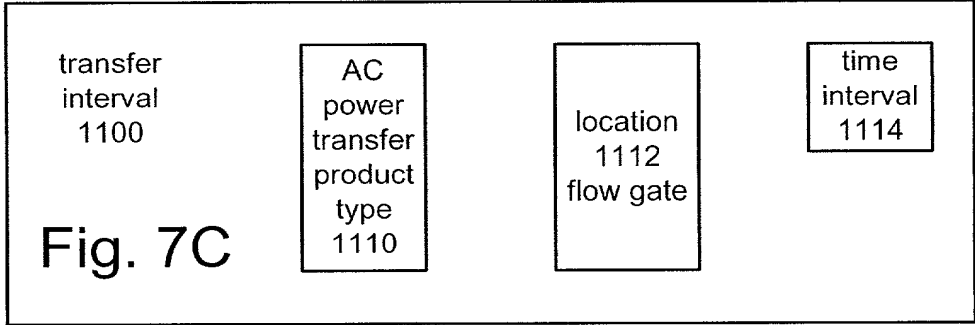
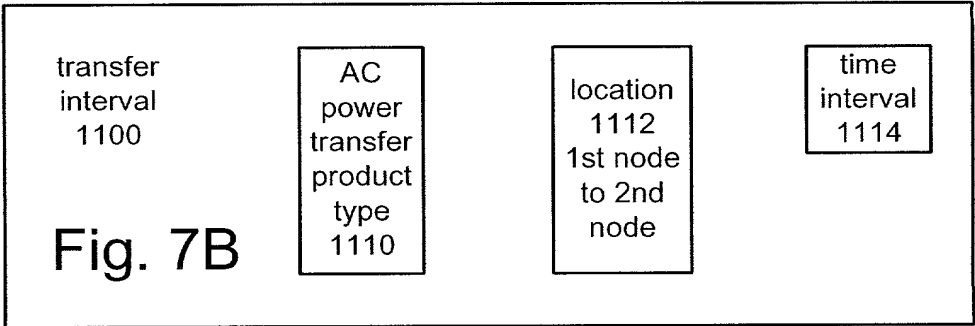
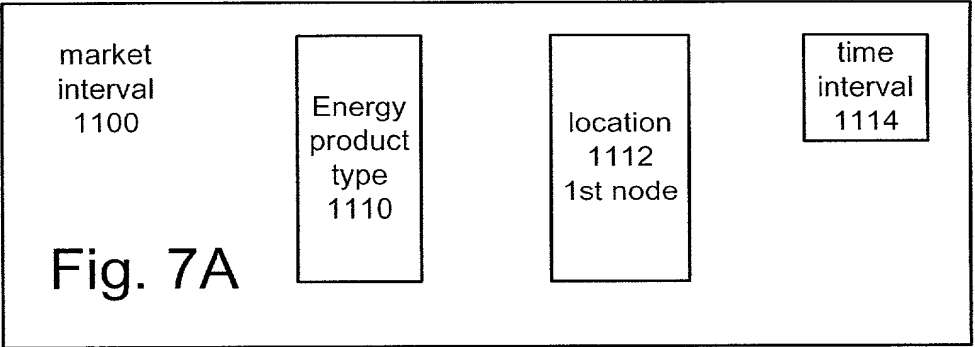


Fig. 6B



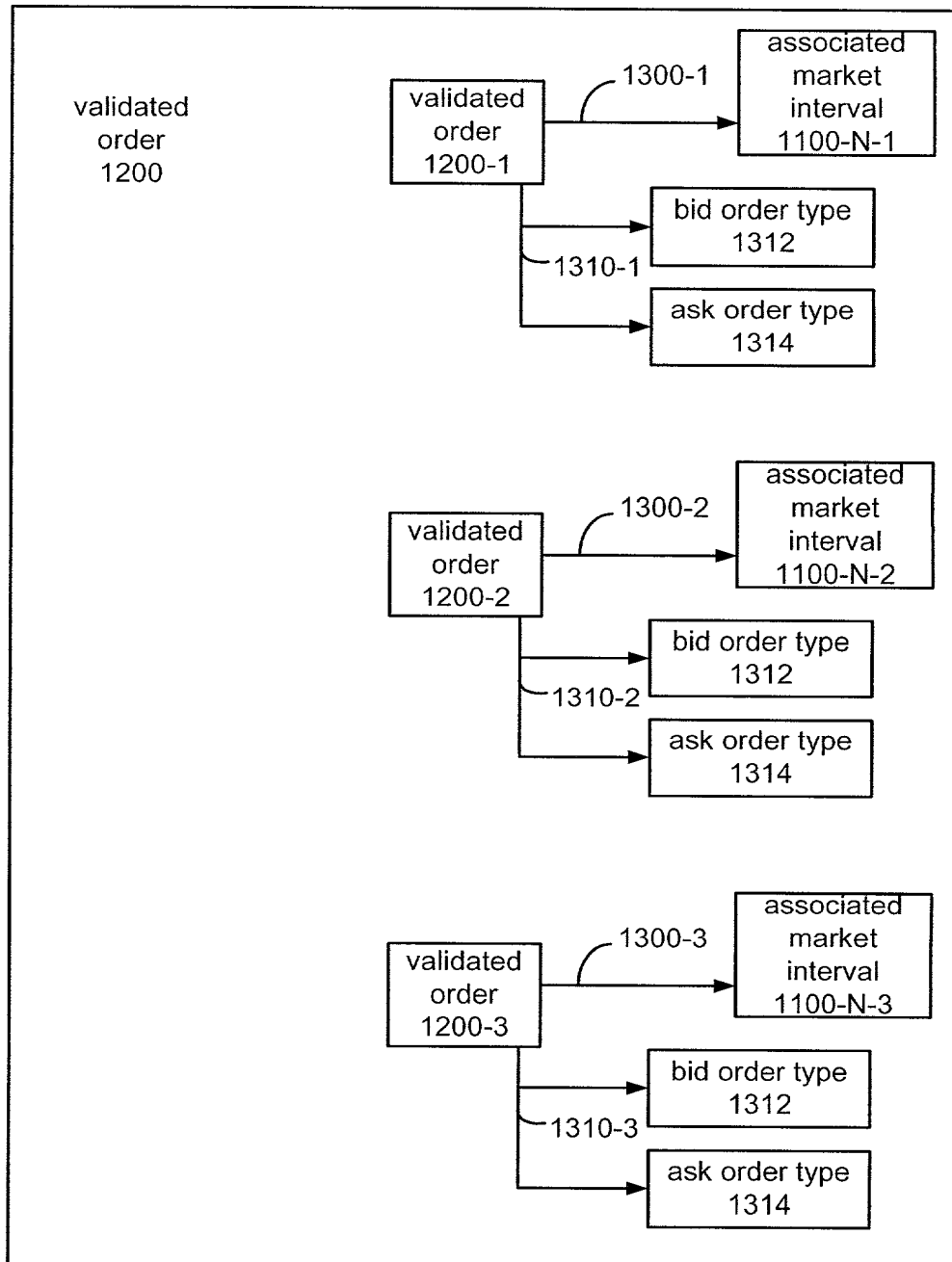


Fig. 8

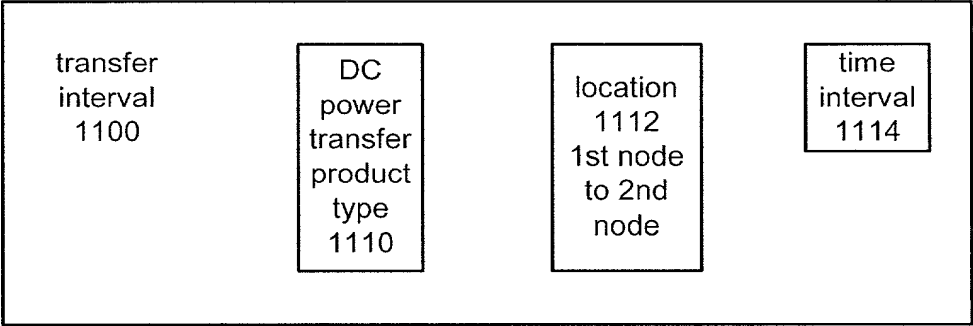


Fig. 9A

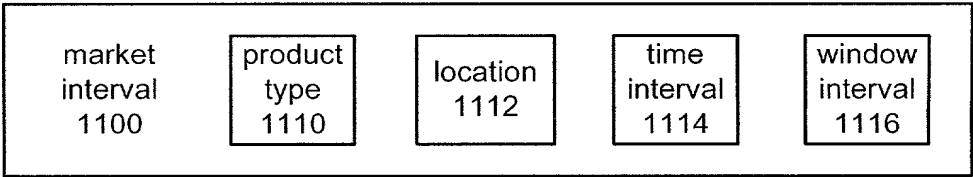


Fig. 9B

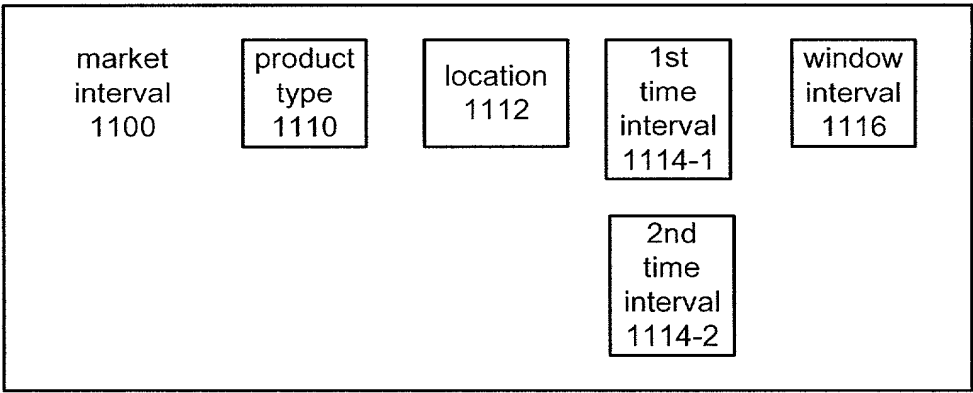


Fig. 9C

7000

APX Market Window (TM) (Generation Resources (Participant Sale))

File Edit View Order Message Tools Window Help

7006

Generation

Load

Transfer In

Transfer Out

Import

Export

Transmission

Initiate Bilateral

Confirm Bilateral

Portfolio Manager

Orders

Graphs

Market Depth

Generation 7030

Unit 7002

November 1998

Sun 1	Mon 2	Tue 3	Wed 4	Thu 5	Fri 6	Sat 7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

11/10/98 11/11/98

Unit COCOPP_7 Unit 1

Sell APX Zone Illinois

Commodity Hourly Energy

Display Options 7004

MW's of Total Only

Market Depth Highest Bid & Lowest Ask

☐ Min & Max Order Allowed

☐ Local Time (GMT-05:00) Eastern Time

☐ Generation Curve

Order Options

☐ At Market ☒ Limit

☐ Use Withdraw Date & Time

☐ Display order summary when submitting order(s)

☐ Display warning for orders outside native zone

☐ Only order in round lot multiple of 25 MW

Market	Market	Contracted	Pending	Total	Highest	Highest	Lowest	Lowest	New	Limit	Limit
Time	Price	Position	Position	Position	Bid	Bid	Ask	Ask	Order	Price	Range
Hour (\$/MWh)	(Net MW)	(Net MW)	(Net MW)	(Net MW)	Quantity	Price	Quantity	Price	(Net MW)	(\$/MWh)	
Ending (ST)	7008	7010	7012	7014	7016	7018	7020	7022	7024		
1	14.54	0.00	0.00	0.00							
2	12.17	0.00	0.00	0.00	36.59	11.20	35.99	12.43			
3	12.96	12.00	13.00	25.00	26.98	11.71	38.84	14.21	25.00	20.00	Or More
4	14.45	12.00	13.00	25.00	32.41	12.99	40.76	15.40	25.00	20.00	Or More
5	18.17	12.00	13.00	25.00	39.55	17.61	29.77	18.76	25.00	20.00	Or More
6	19.91	12.00	13.00	25.00	45.61	18.02	25.56	20.54	25.00	20.00	Or More
7	22.31	25.00	0.00	25.00	40.33	20.89	34.16	23.17	25.00	20.00	Or More
8	22.42	25.00	0.00	25.00	50.94	22.39	43.08	24.12	25.00	20.00	Or More
9	23.47	25.00	0.00	25.00	59.49	22.40	40.09	25.28	25.00	20.00	Or More
10	24.05	25.00	0.00	25.00	61.26	24.05	46.29	25.28	25.00	20.00	Or More
11	24.17	25.00	0.00	25.00	26.94	24.17	50.06	24.71	25.00	20.00	Or More
12	23.73	25.00	0.00	25.00	26.85	23.73	45.69	26.09	25.00	20.00	Or More
13	23.30	25.00	0.00	25.00	35.01	23.19	46.22	25.39	25.00	20.00	Or More
14	21.26	25.00	0.00	25.00	51.60	20.62	42.48	25.39	25.00	20.00	Or More
15	22.37	25.00	0.00	25.00	56.34	21.99	44.09	24.04	25.00	20.00	Or More
16	22.53	25.00	0.00	25.00	53.21	22.05	40.71	24.19	25.00	20.00	Or More
17	22.75	25.00	0.00	25.00	28.80	21.40	42.38	23.75	25.00	20.00	Or More
18	23.80	25.00	0.00	25.00	48.05	23.58	40.24	25.05	25.00	20.00	Or More
19	24.75	25.00	0.00	25.00	38.89	24.05	34.85	26.81	25.00	20.00	Or More
20	24.98	25.00	0.00	25.00	38.48	24.93	37.47	26.37	25.00	20.00	Or More
21	24.07	25.00	0.00	25.00	31.43	23.64	31.10	25.47	25.00	20.00	Or More
22	21.12	25.00	0.00	25.00	40.56	21.07	43.59	23.98	25.00	20.00	Or More
23	19.83	12.00	0.00	25.00	43.24	17.75	31.24	21.01	25.00	20.00	Or More
24	17.06	12.00	0.00	25.00	41.08	15.27	33.41	19.29	25.00	20.00	Or More

Submit

Withdraw

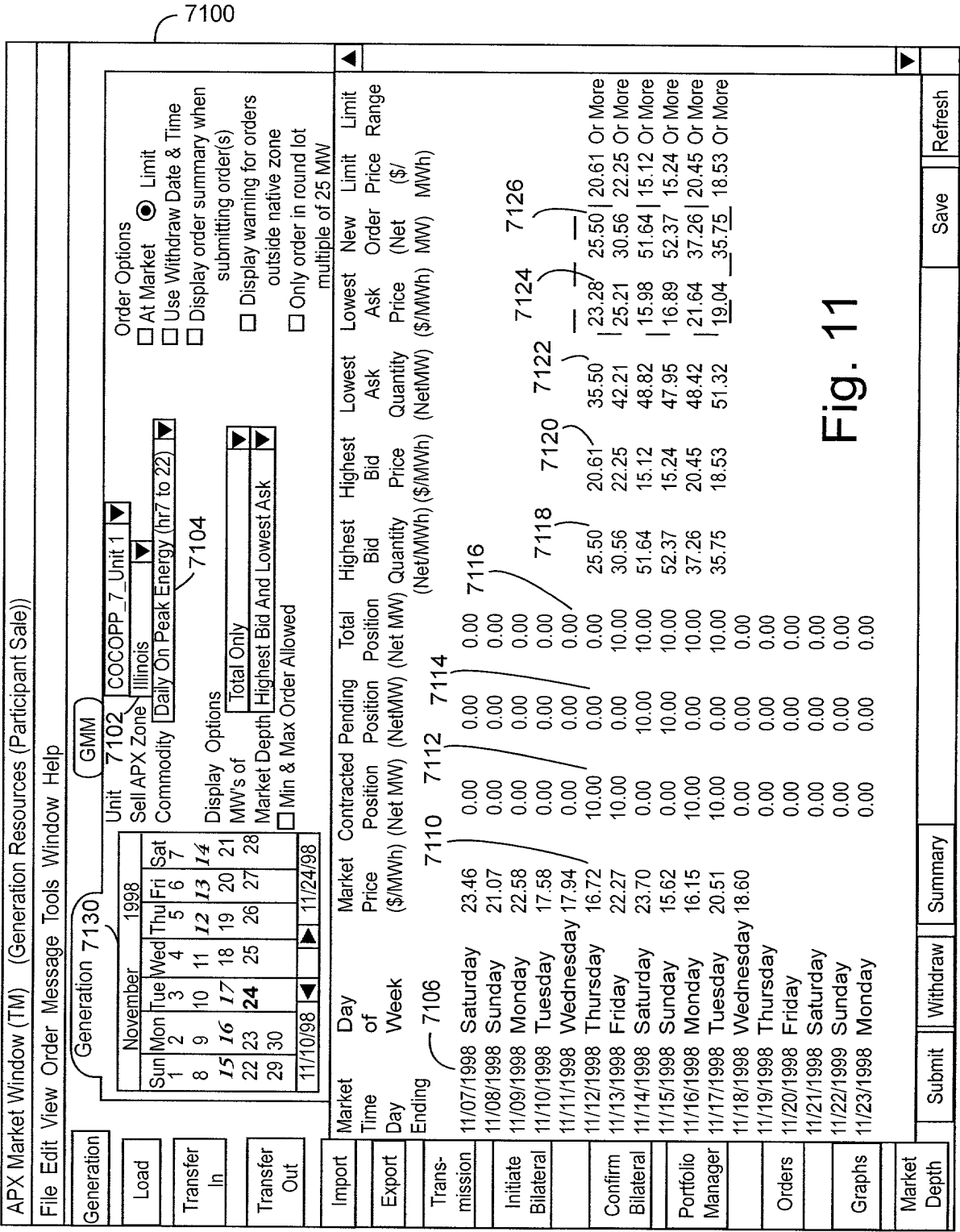
Summary

Save

Refresh

Fig. 10

109180"4632660



7200

APX Market Window (TM) (Flowgate Trading)

File Edit View Order Message Tools Window Help

7230

May 1999						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

5/10/99 ◀ ▶ 5/10/99

Flowgate
Commodity

Display Options

Market Depth

☐ Min & Max Order Allowed

☐ Local Time

COCOPP_7_Unit 1

Hourly Flowgate

None

(GMT-00:00) GMT Time

7202

7204

Order Options

☐ At Market ☒ Limit

☐ Use Withdraw Date & Time

☐ Display order summary when submitting order(s)

☒ Display warning for orders outside native zone

☐ Only order in round lot multiple of 25 MW

Market Time	Market Price (\$/MWh)	Contracted Position (Net MW)	Pending Position (Net MW)	Total Position (Net MW)	New Order (Net MW)	Limit Price (\$/MWh)	Limit Range	NOCA->SoCA Contracted Flow (Net MW)	NOCA->SoCA Pending Flow (Net MW)	NOCA->SoCA Total Flow (Net MW)
Ending Hour (DT)	7208	7210	7212	7214	7216			7224	7226	7228
1	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

7206

Submit

Withdraw

Summary

Save

Refresh

Fig. 12

7300

File Edit View Go Bookmarks Tools Help

TRADING

ENERGY Market

Bilateral

OneLook

Orders Summary

Reports

TRANSMISSION

MY WINDOW ORGANIZER

TRADING

DELIVERY

ACCOUNTING

NEWS

ABOUT US

Wednesday August 16, 2000 21:10:08

Market Window

TRADING/ENERGY Market

7302

7304

Hyatt Generation

Market: (more...)

Mont/Ida/Ut/Wyo Hub

Hourly

0.1 MW

All-in Prices

Interval	Market	Best Vol	Bid Price	Ask Price	Best Vol	Trade Price	Prc Cng	Transmission/Price for Buy	Price for Sell	On	Qua
Aug 22, 2000 00	Mont/Ida/Ut/Wyo Hub	20.00	14.00	14.25	50.00	13.50	-0.50	7.26	-6.71		
	New Mexico Hub	50.00	16.00	16.25	50.00			4.51	-2.38		
	Northwest Hub			15.25	50.00	15.00	0.00	7.81	-7.65		
	Colorado Hub	50.00	16.00	16.25	50.00			6.40	-5.48		
	No California Hub	50.00	20.00	20.25	50.00			-0.20	0.26		
Aug 22, 2001 00	Arizona Hub	50.00	18.25	18.50	50.00			1.97	0.75		
	So California Hub	50.00	24.00	24.25	50.00			-2.95	3.26		
	Mont/Ida/Ut/Wyo Hub	20.00	14.00	14.25	50.00	13.50	-0.50	7.26	-6.71		
	New Mexico Hub	50.00	16.00	16.25	50.00			4.51	-2.3		
	Northwest Hub	50.00	15.00	15.25	50.00			7.81	-7.65		
Aug 22, 2002 00	Colorado Hub	50.00	16.00	16.25	50.00			6.40	-5.48		
	No California Hub	50.00	20.00	20.25	50.00			-0.20	0.26		
	Arizona Hub	50.00	18.25	18.50	50.00			1.97	0.75		
	So California Hub	50.00	24.00	24.25	50.00			-2.95	3.26		
	Mont/Ida/Ut/Wyo Hub	20.00	14.00	14.25	50.00	13.50	-0.50	7.26	-6.71		
	New Mexico Hub	50.00	16.00	16.25	50.00			4.51	-2.38		
	Northwest Hub	50.00	15.00	15.25	50.00			7.81	-7		
	Colorado Hub	50.00	16.00	16.25	50.00			6.40	-5.48		
	No California Hub	50.00	20.00	20.25	50.00			-0.20	0.26		

RELATED LINKS

California ISO

California PUC

Oversight Board

CEC

Green-e

NERC

Market Depth

Interval Depth

Recent Transactions

Transportation Requirements

Graphs

Price History

Bid	Credit	Lot	Volume	Price	Price	Volume	Lot	Credit	Ask
APX		0.1 MV	20.0	14.00	14.25	50.0	0.1 MV	APX	
APX		0.1 MV	50.0	13.50	14.75	50.0	0.1 MV	APX	
					15.00	20.0	0.1 MV	APX	

Review + Submit

Withdraw

Options

Change Inc. - 2000

Fig. 13

7400

FOOTER "4692550"

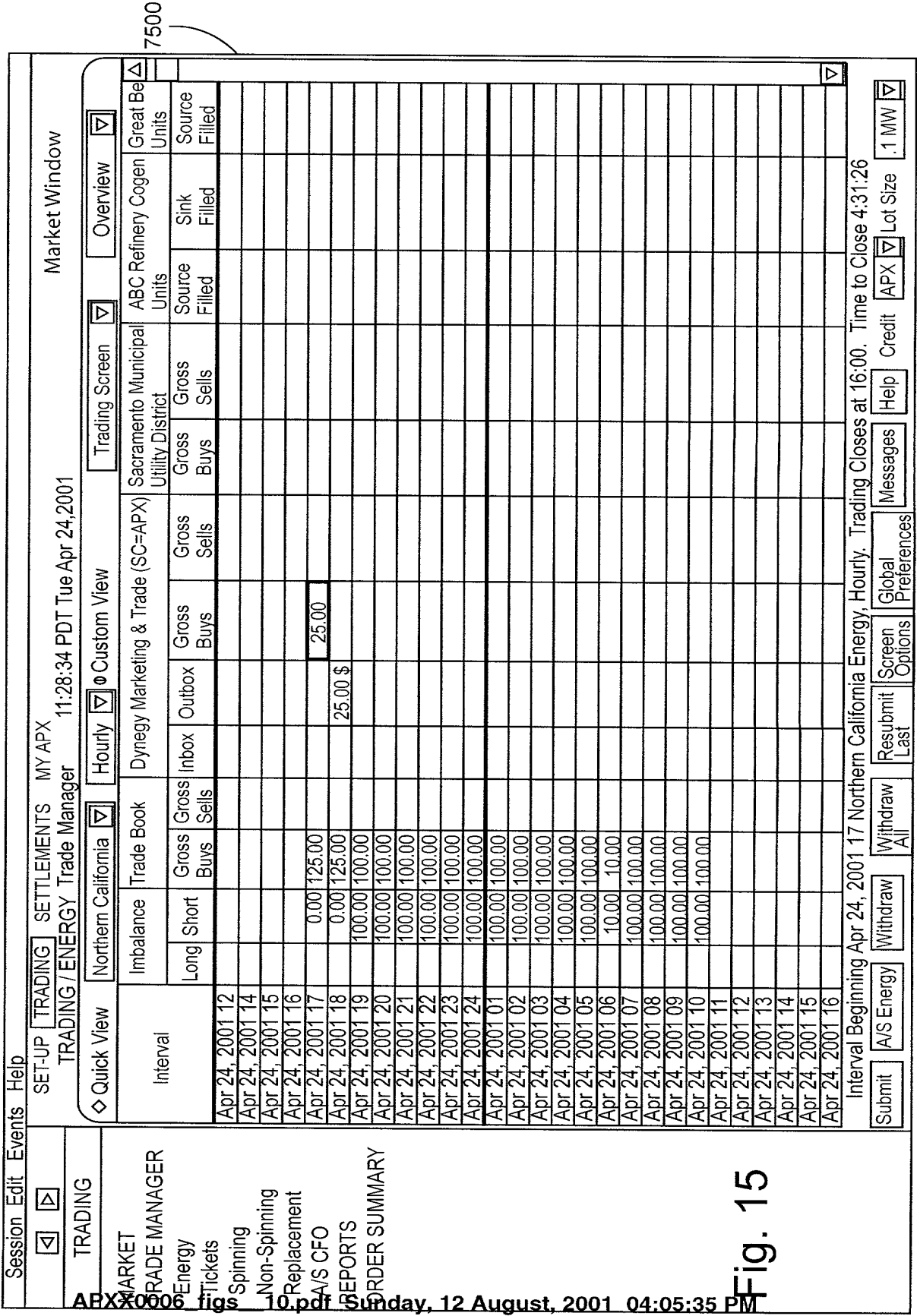
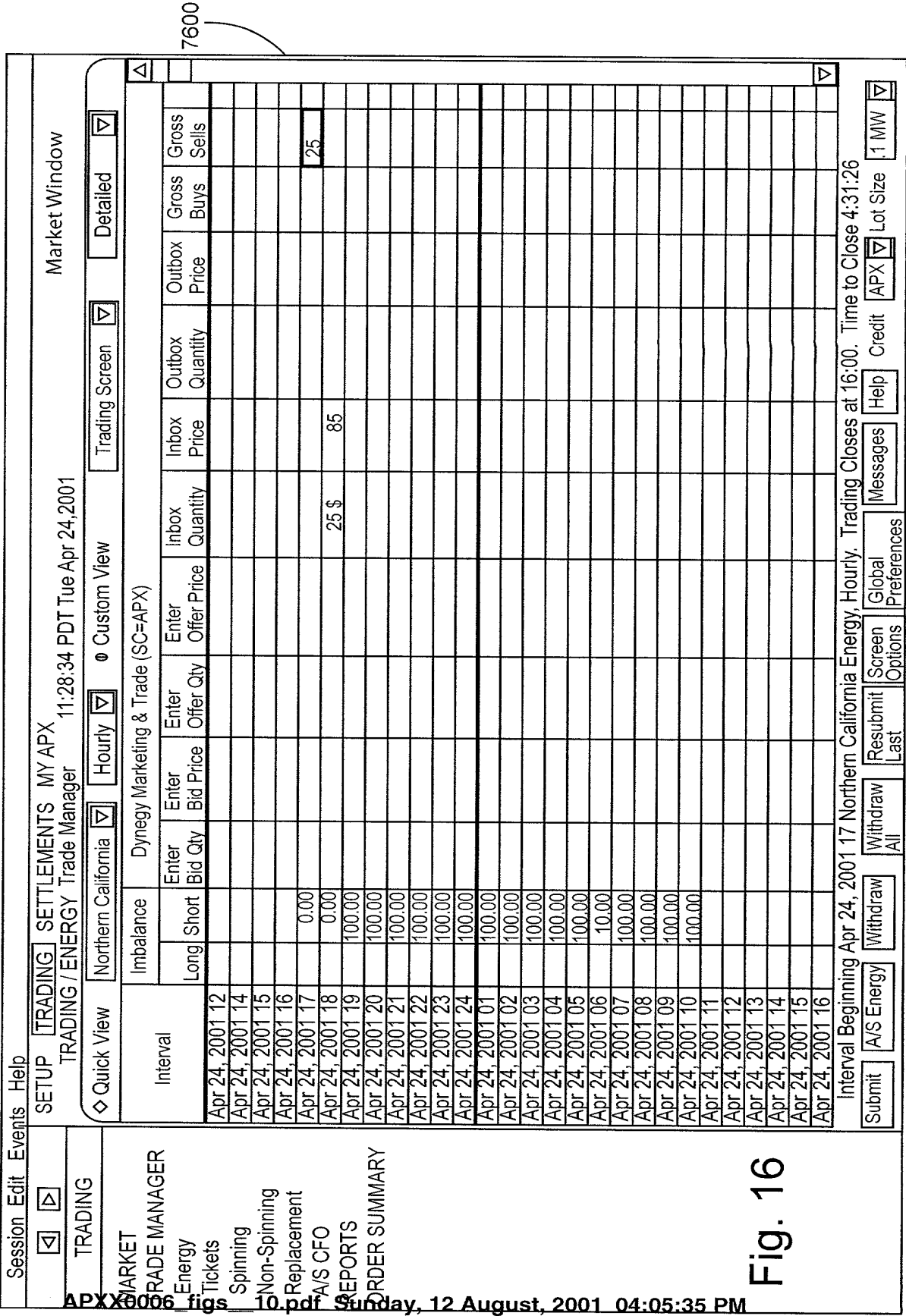


Fig. 15

7600"469EE660



Session Edit Events Help	ORGANIZER TRADING ACCOUNTING
Mon Jul 23, 2001 16:58:38	
INVOICES PRELIMINARY ISO PRELIMINARY REPORT & DOWNLOAD CALENDAR 2001 OVERVIEW SETTLEMENTS NEWS CHARGE CODES SAMPLE INVOICES Generator Load	APX HOME APX AGREEMENTS BILLING CONTRACTS Company: ACN1 LOG OFF CHANGE PASSWORD Login Contact Name: APX157

Reports and Download

Reports	Daily Download	Monthly Download	File Description
Load Meter			DESC
Generation Meter (Hourly)			DESC
Generation Meter (10-min.)			DESC
Monthly Meter Summary			DESC
Contracted Orders			DESC
Counter Party Orders			DESC
Applied Charges			DESC
Daily Charge Summary			DESC
CAISO Seasonal Super Peak Market			
Facility Names			DESC

Fig. 17

PORT80" 4692E660

Session Edit Events Help

ORGANIZER TRADING ACCOUNTING

Mon Jul 23, 2001 16:59:51

APX HOME

APX AGREEMENTS

BILLING

CONTRACTS

LOG OFF

CHANGE PASSWORD

Company: ACN1

Login Contact Name: APX157

INVOICES

PRELIMINARY

ISO PRELIMINARY

REPORT & DOWNLOAD

CALENDAR 2001

OVERVIEW

SETTLEMENTS NEWS

CHARGE CODES

SAMPLE INVOICES

Generator Load

Invoice#:

Participant: Sample Generator Name

Sample Generator Address

Sample Generator Account

Payment Due Date: January 15, 2001 10:00AM

Click on a link to see details for that day 7804

7800

APX Monthly Invoice

For December 2001

Date Issued	Description	Download	APX Fees	Control Area Fees	External Energy	Apx Energy
12/01/2001	STATEMENT ()		1,250.00	-3,253.00	-301,825.23	-36,543.50
12/02/2001	STATEMENT ()		1,275.95	-6,254.33	-400,323.82	-38,332.25
12/03/2001	STATEMENT ()		1,254.25	-1243.34	-1387,655.05	-23,467.82
12/04/2001	STATEMENT ()		1,185.13	-3,897.12	-225,438.24	-29,877.03
12/05/2001	STATEMENT ()		1,233.00	-29,774.05	-203,546.33	-33,854.50
12/06/2001	STATEMENT ()		987.65	-4,132.55	-308,488.89	-11,453.88
12/07/2001	STATEMENT ()		1,130.91	-1,565.76	-279,116.32	-9,876.30
12/08/2001	STATEMENT ()		999.04	-11,664.87	-233,129.04	-22,675.75
12/09/2001	STATEMENT ()		1,089.43	-3,678.55	-408,011.49	-15,678.91
12/10/2001	STATEMENT ()		1,267.92	-3589.10	-222,555.09	-18,429.03
12/11/2001	STATEMENT ()		893.77	-8,945.23	-192,987.03	-13,742.45
12/12/2001	STATEMENT ()		1,185.05	-19,675.76	-365,981.62	5,899.44
12/13/2001	STATEMENT ()		1,118.74	-463.18	-146,706.59	-3,900.00
12/14/2001	STATEMENT ()		1,056.41	-1,943.65	-268,720.49	-11,450.20
12/15/2001	STATEMENT ()		874.32	-1,789.45	-203,456.27	-16,924.55
APX Fee Total:						\$16,801.61

Fig. 18

FIG. 19

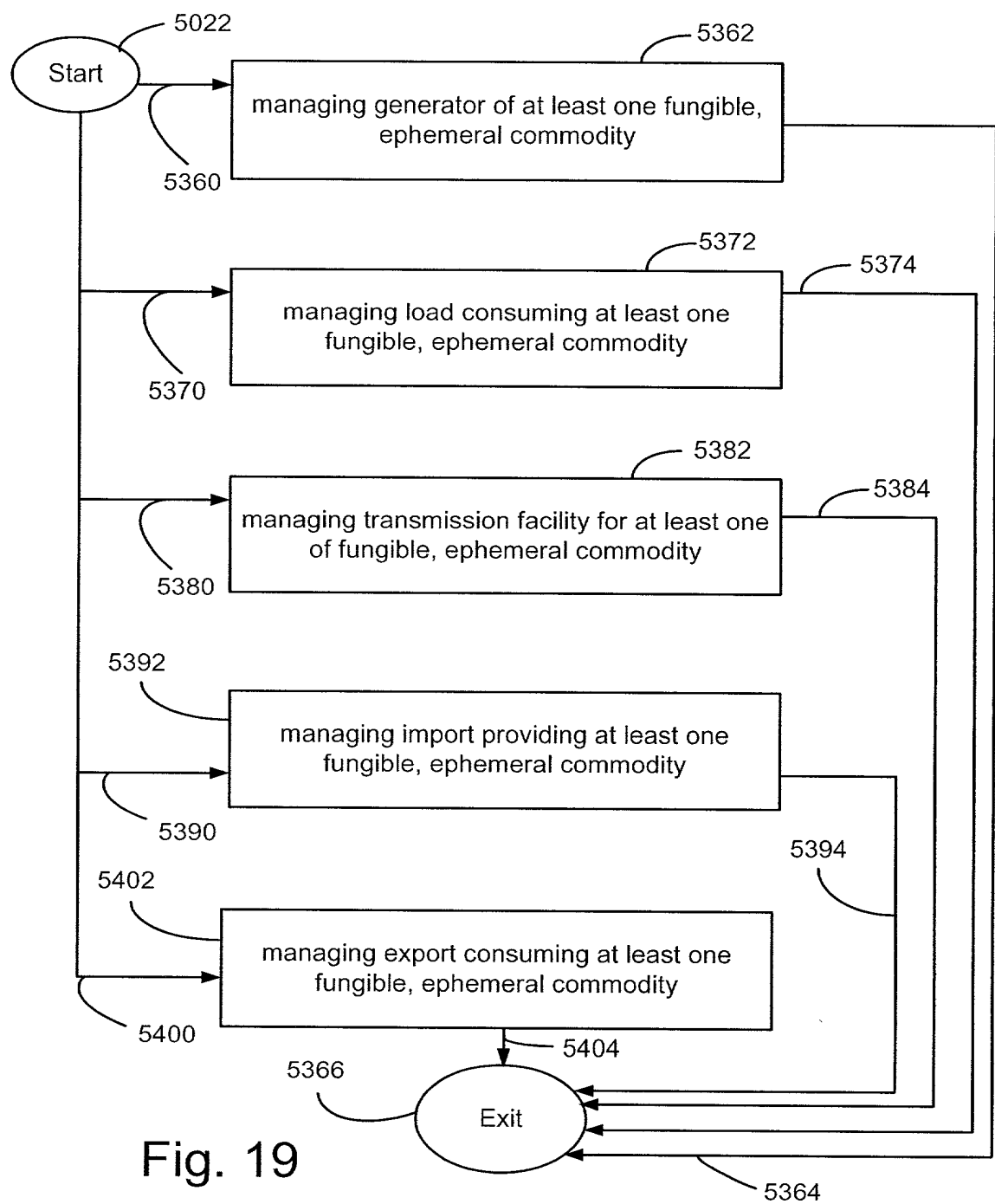


Fig. 19

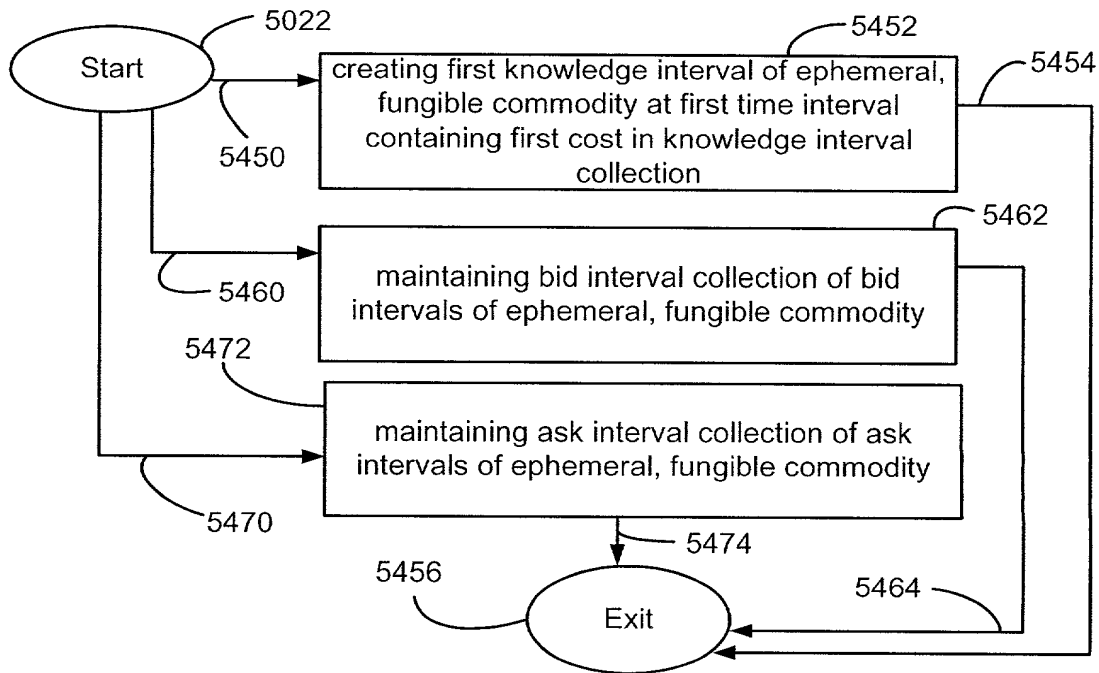


Fig. 20A

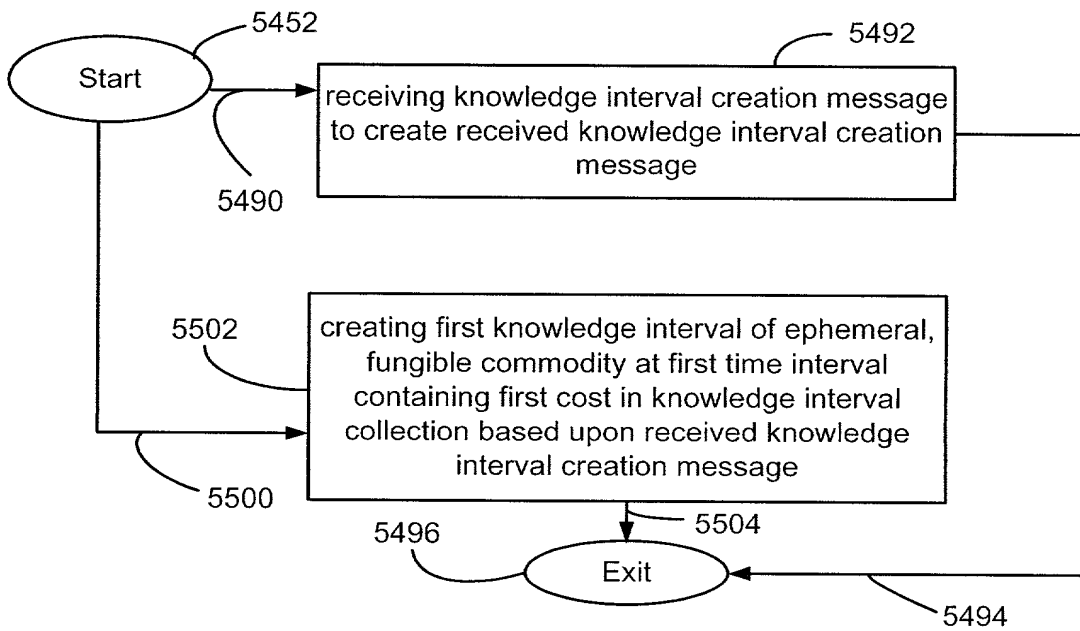
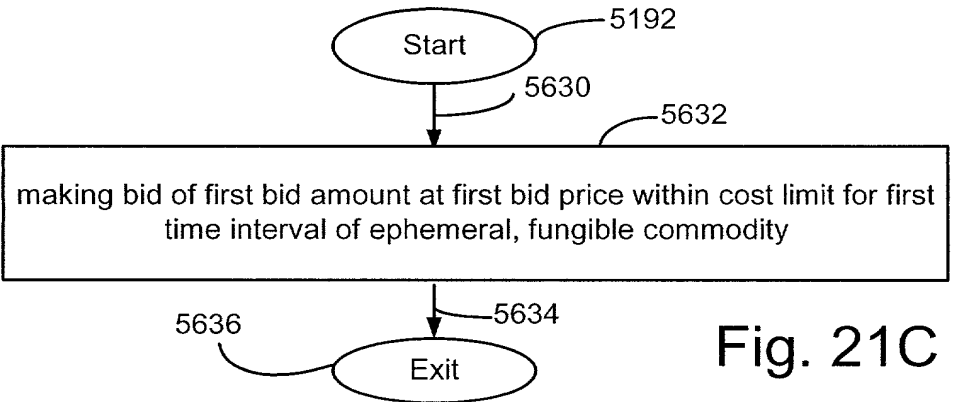
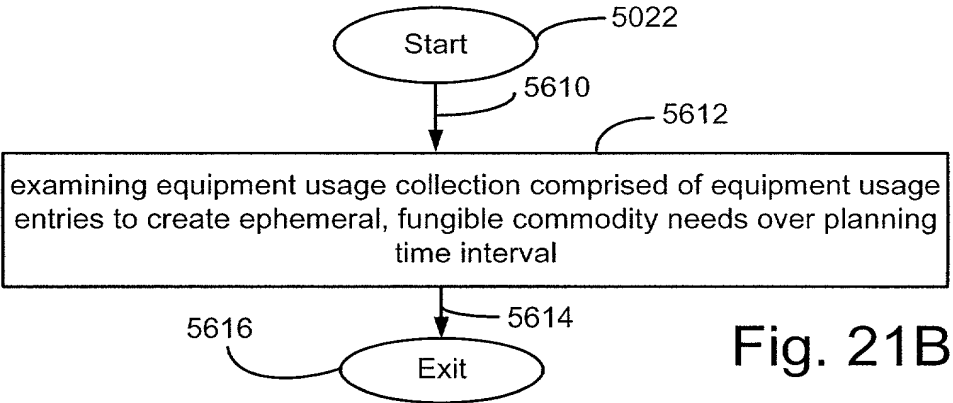
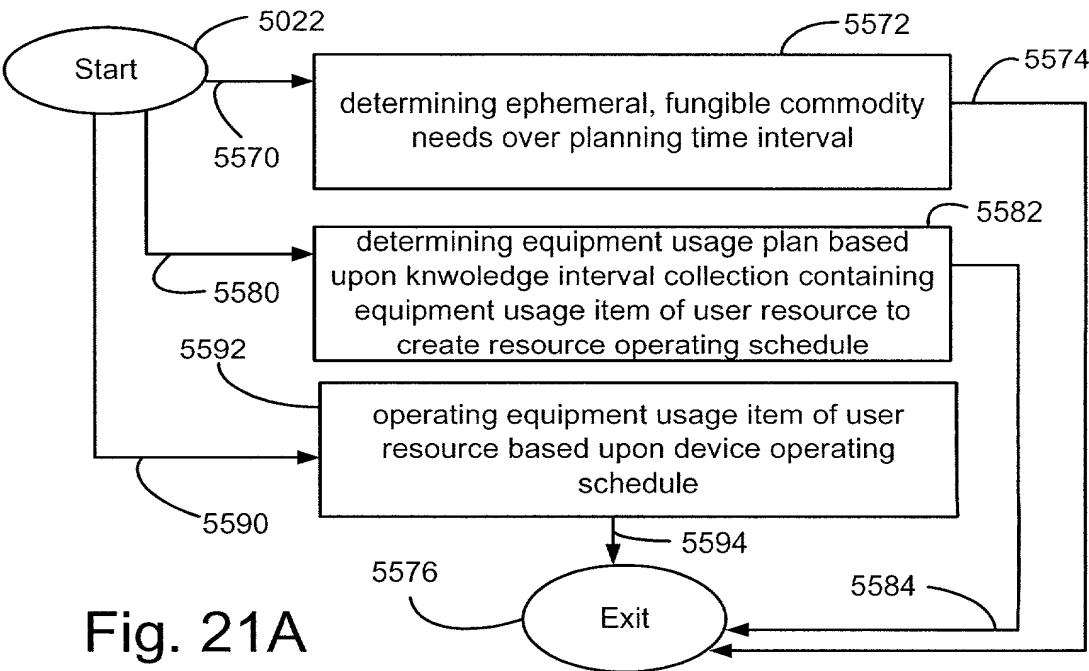


Fig. 20B



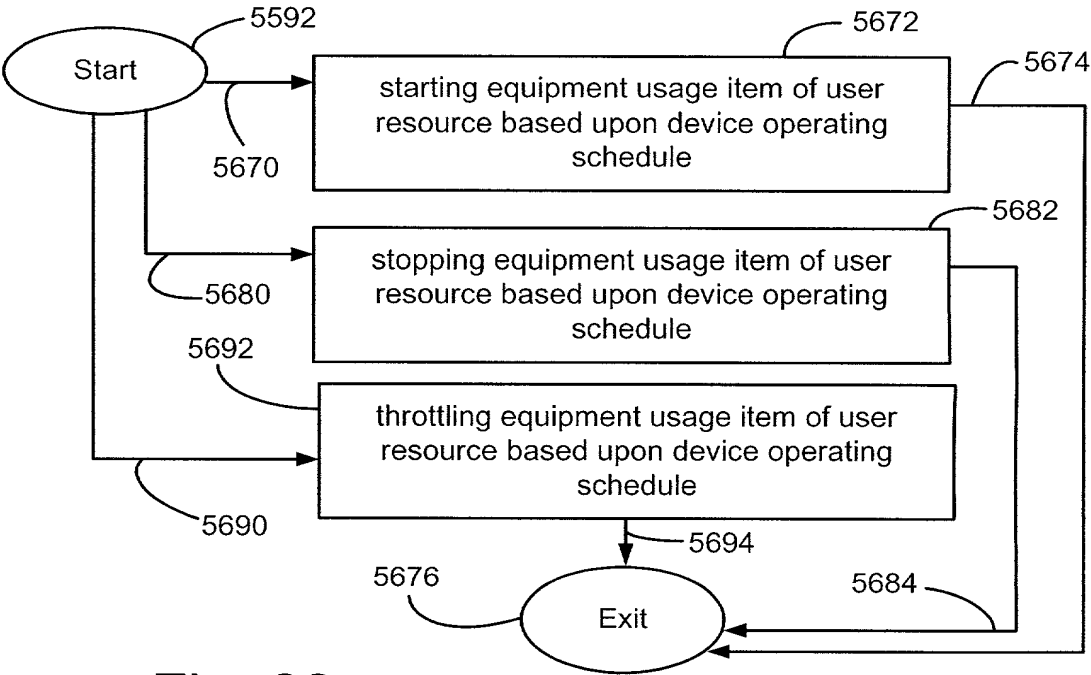


Fig. 22

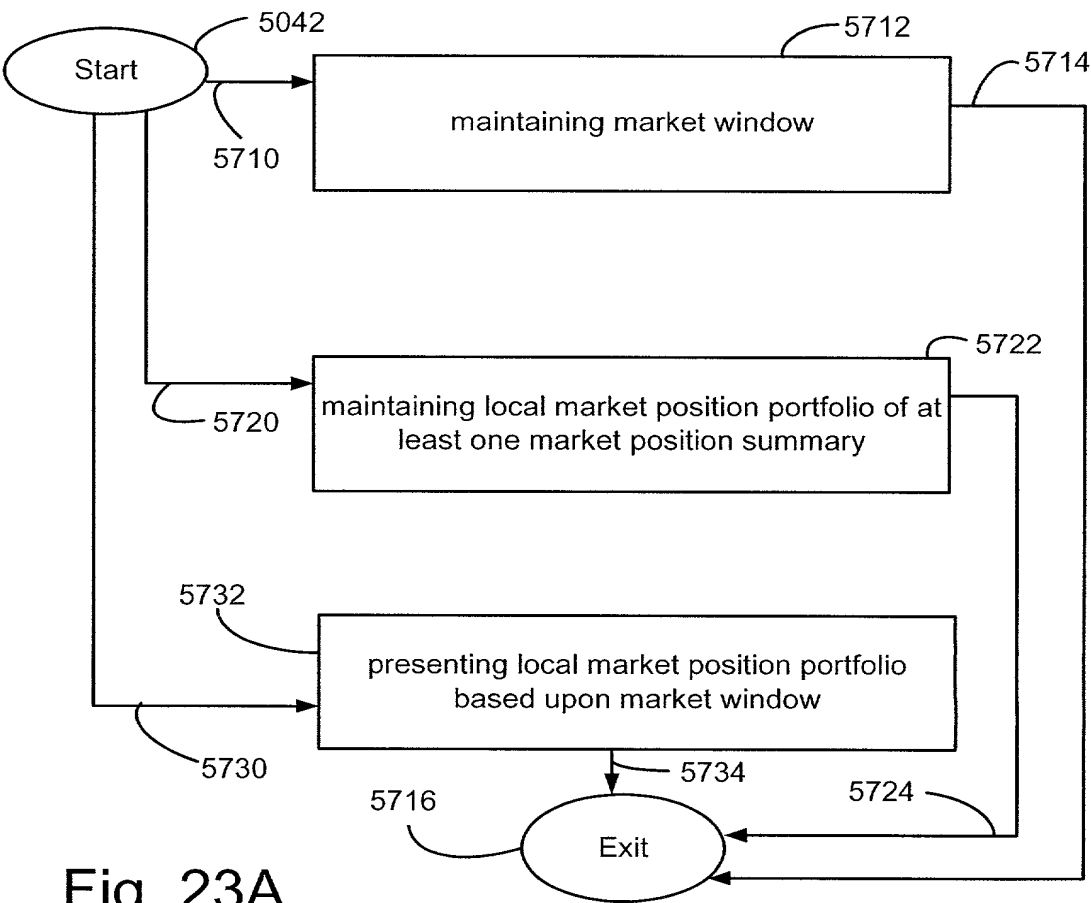


Fig. 23A

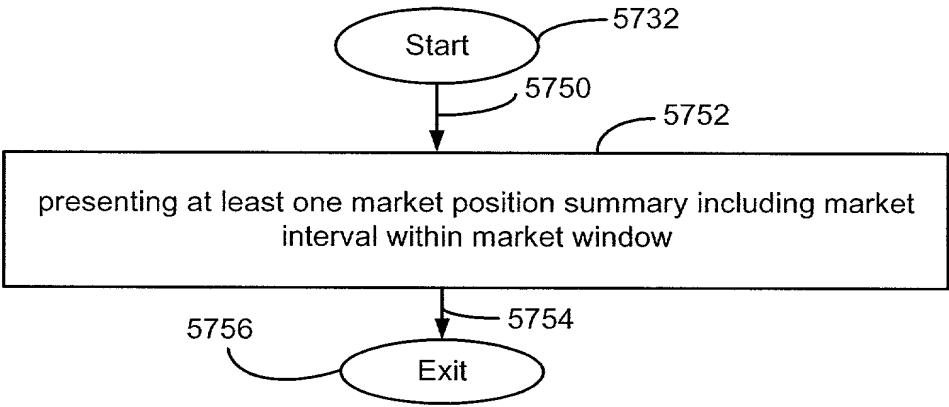


Fig. 23B

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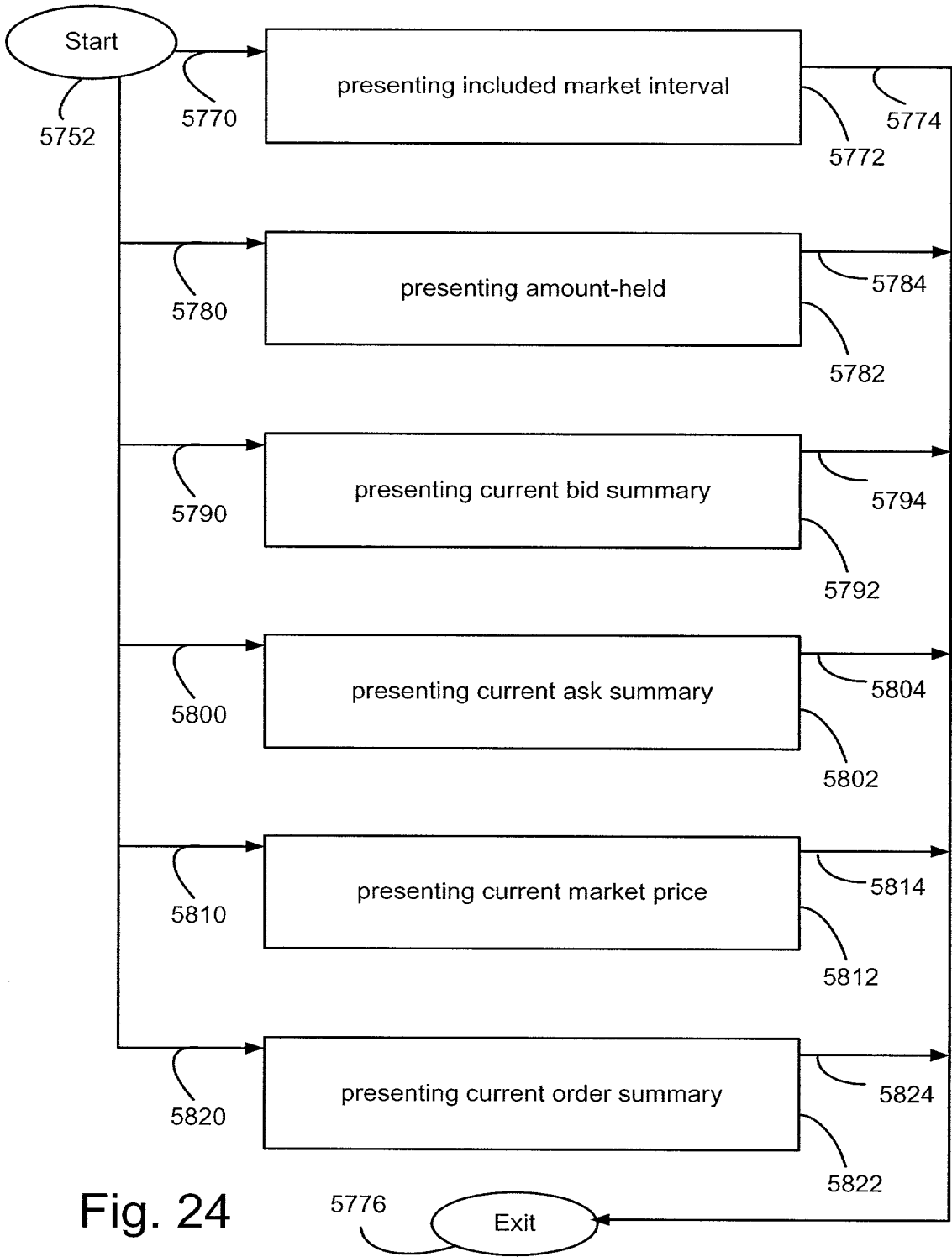


Fig. 24

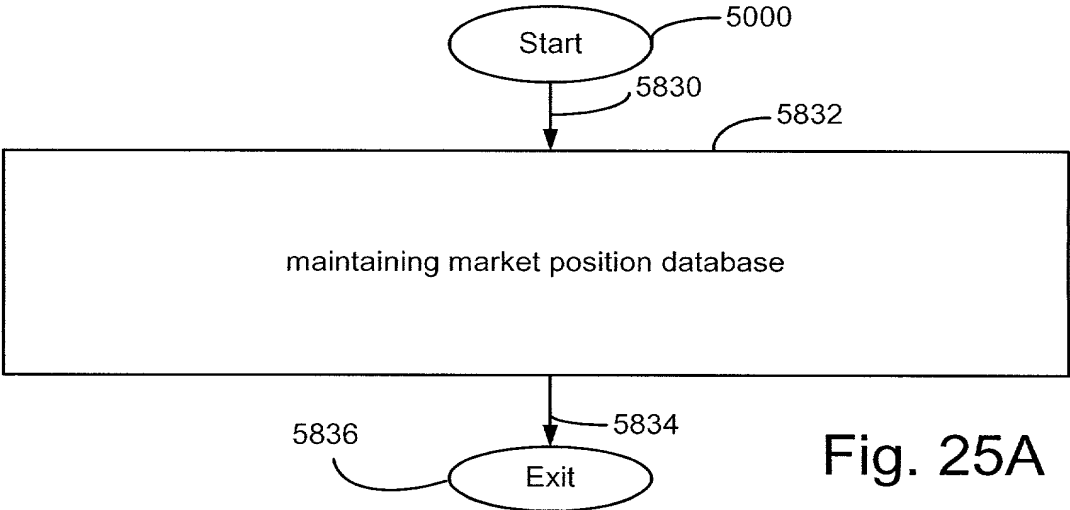


Fig. 25A

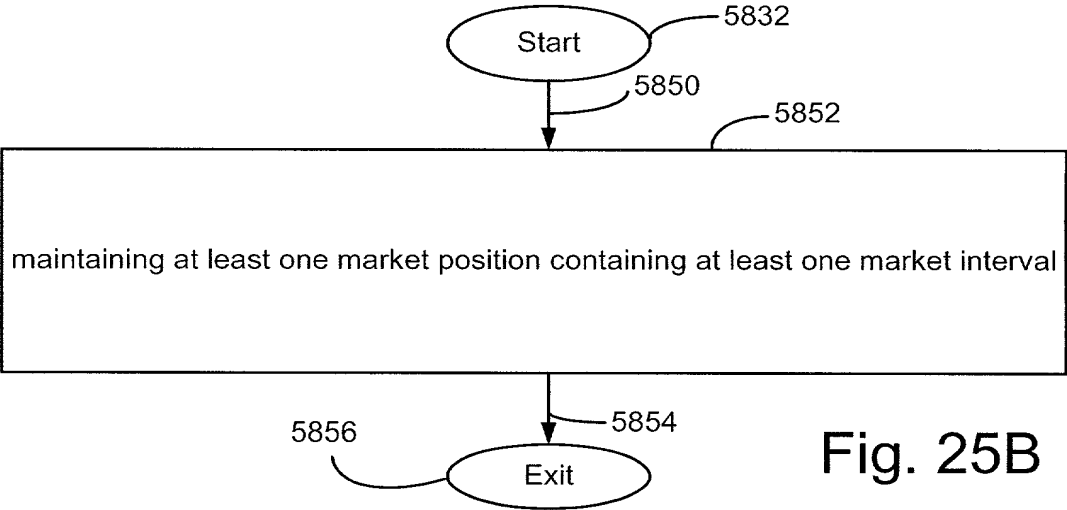
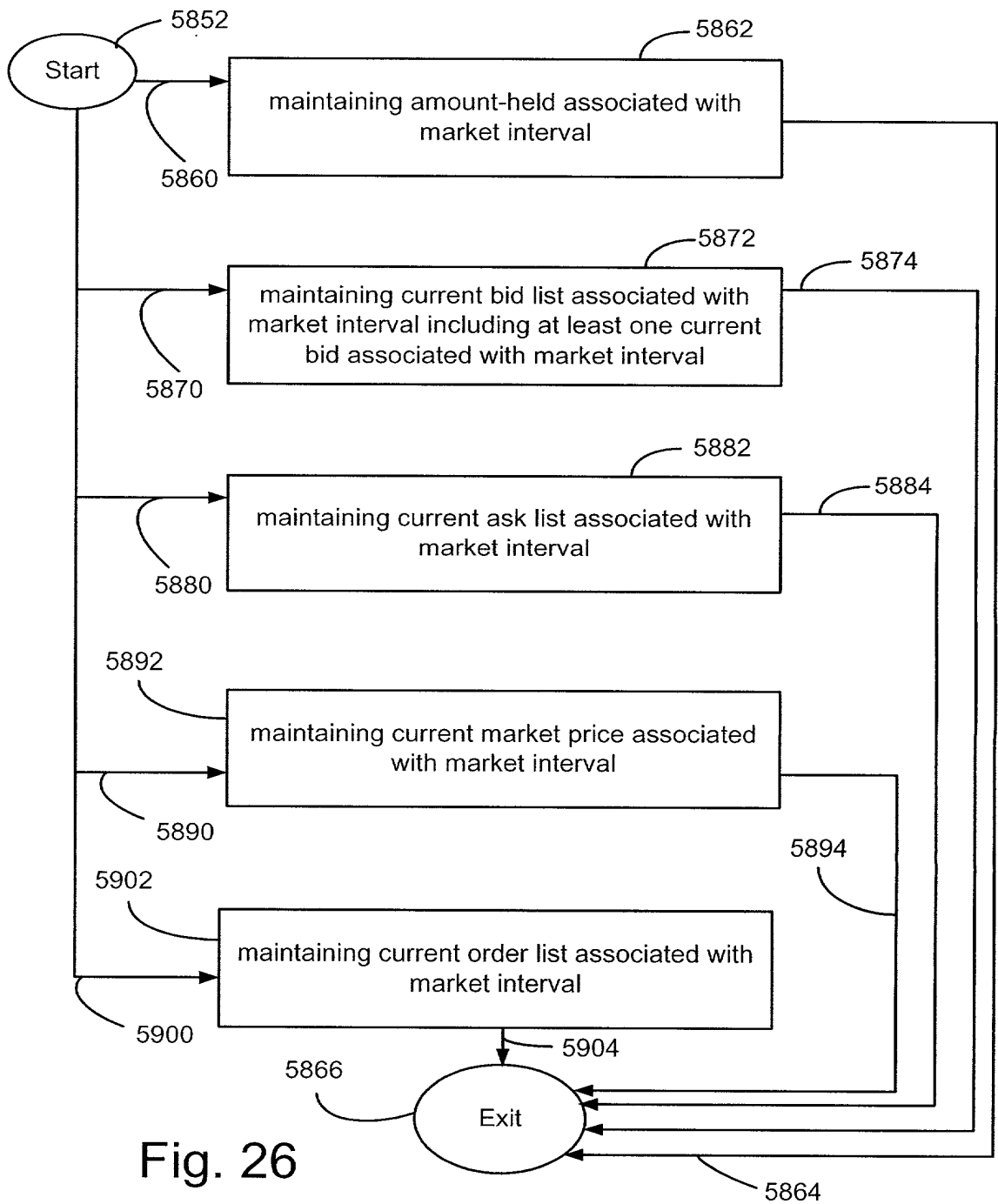


Fig. 25B



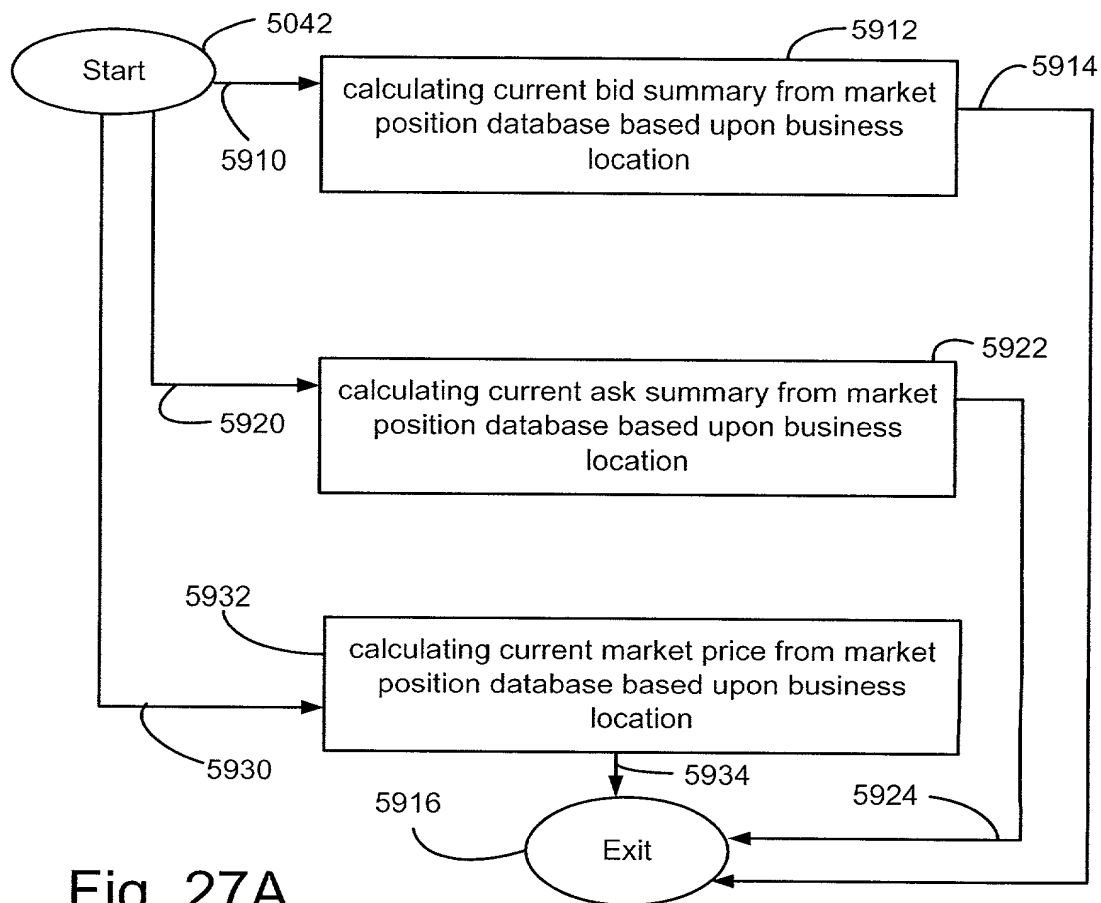


Fig. 27A

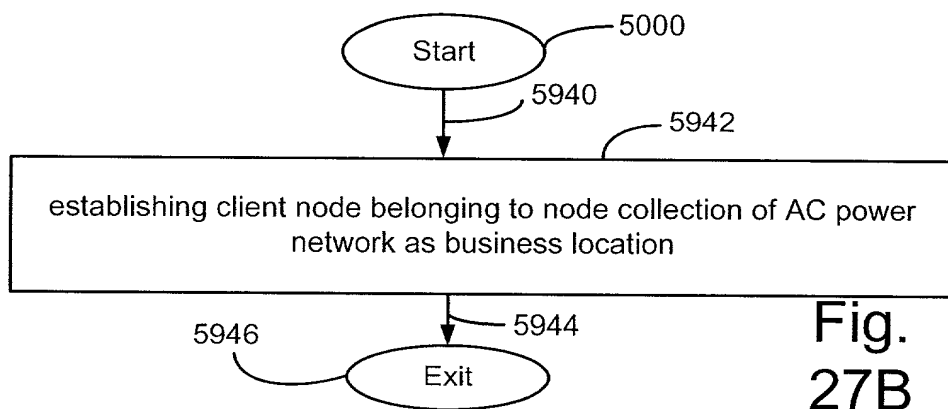


Fig. 27B

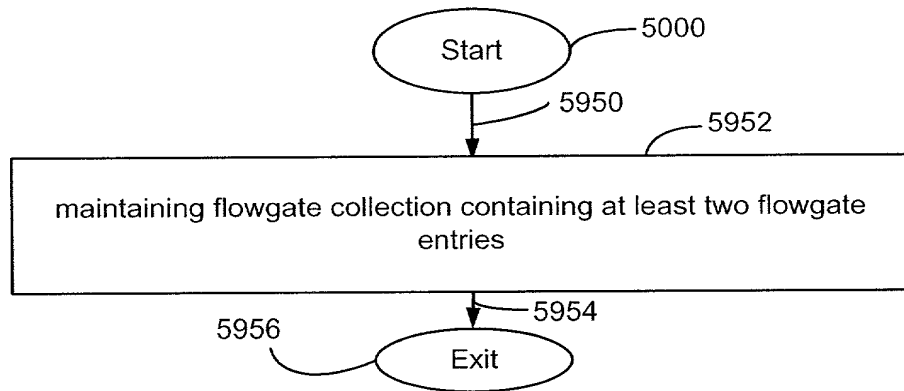


Fig. 28A

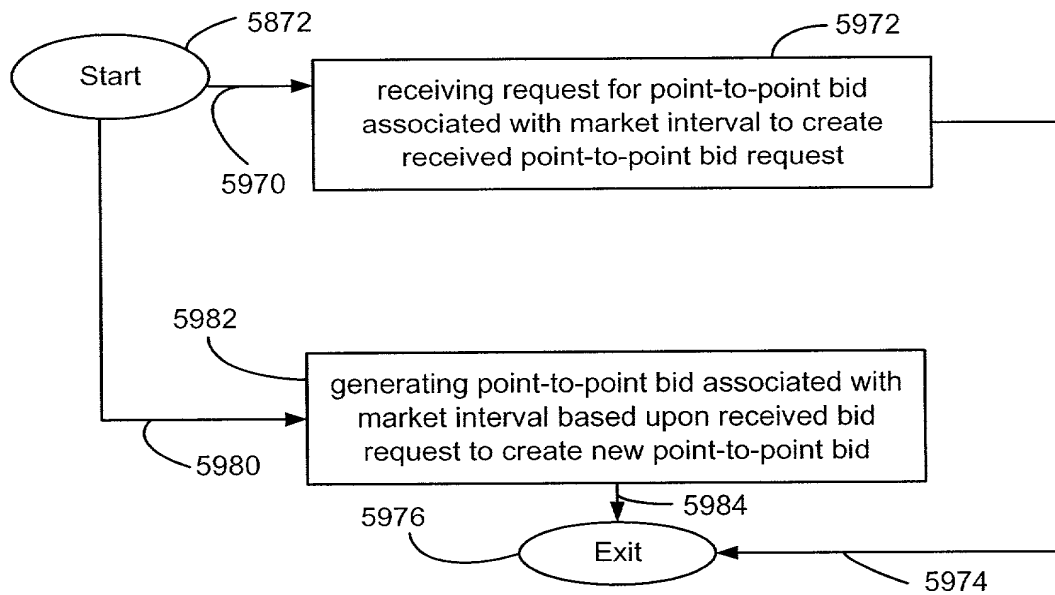


Fig. 28B

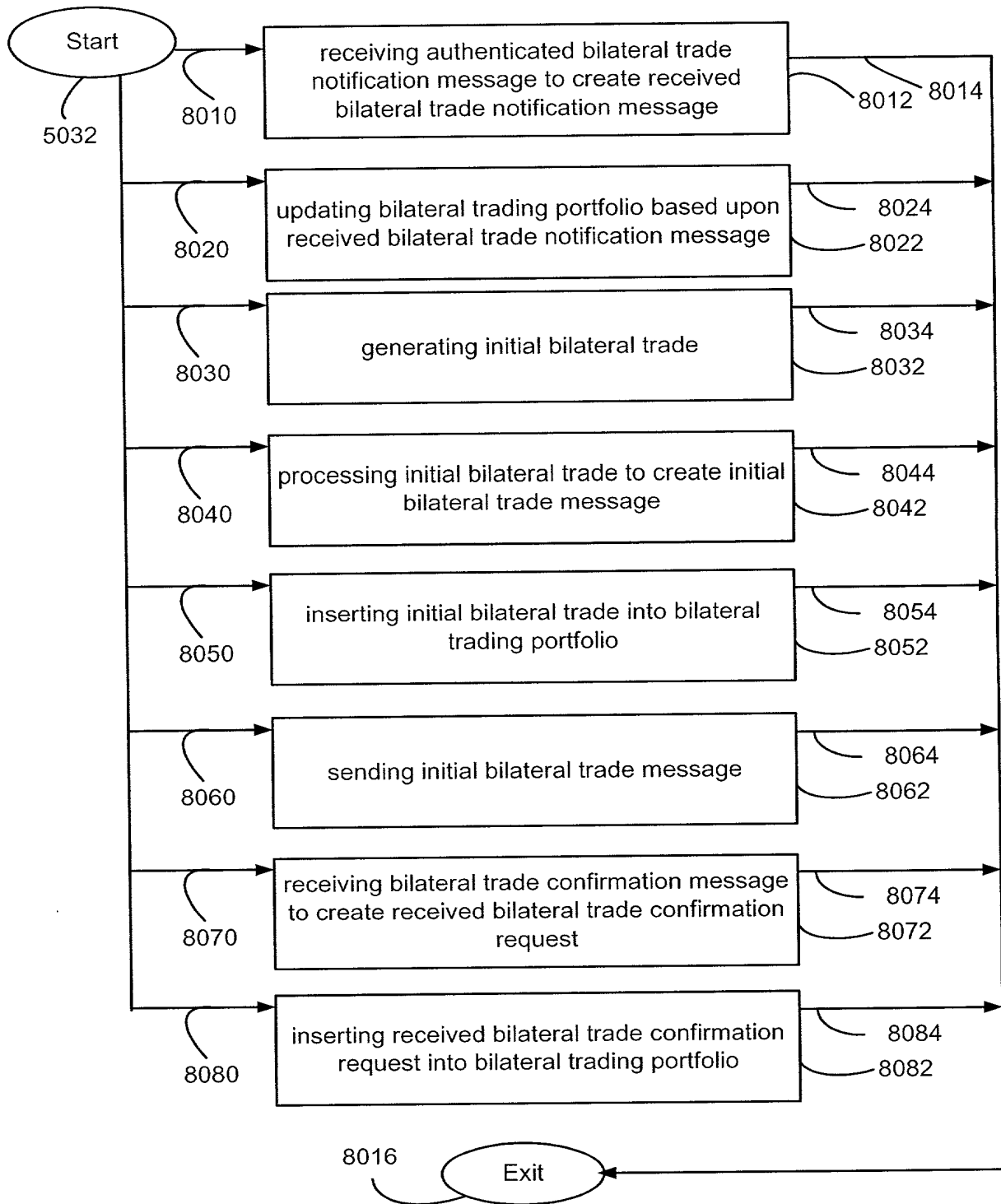
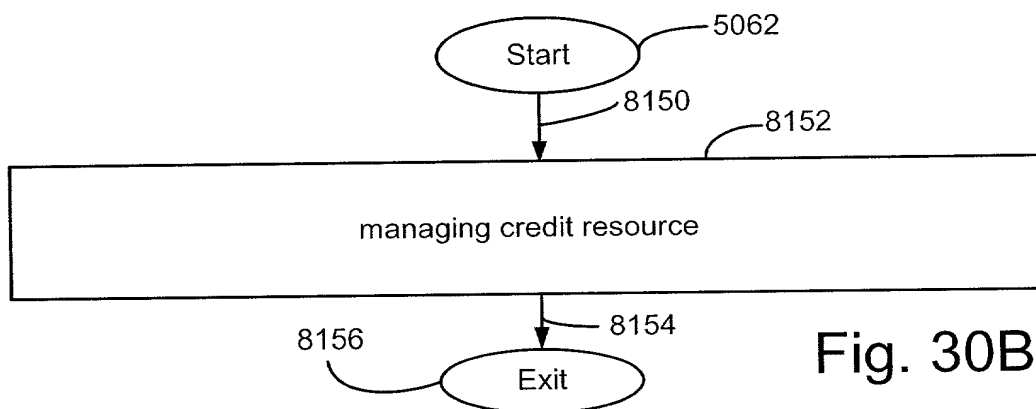
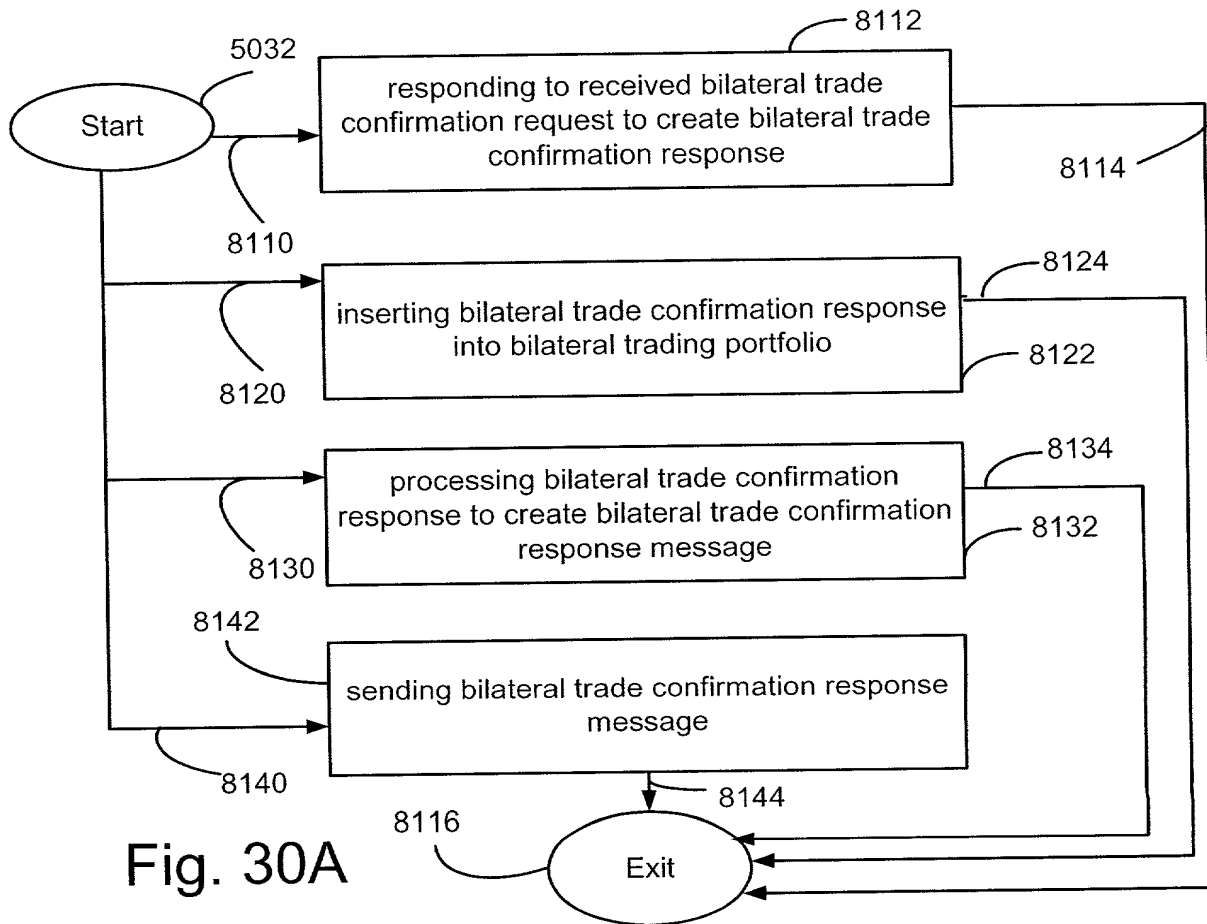
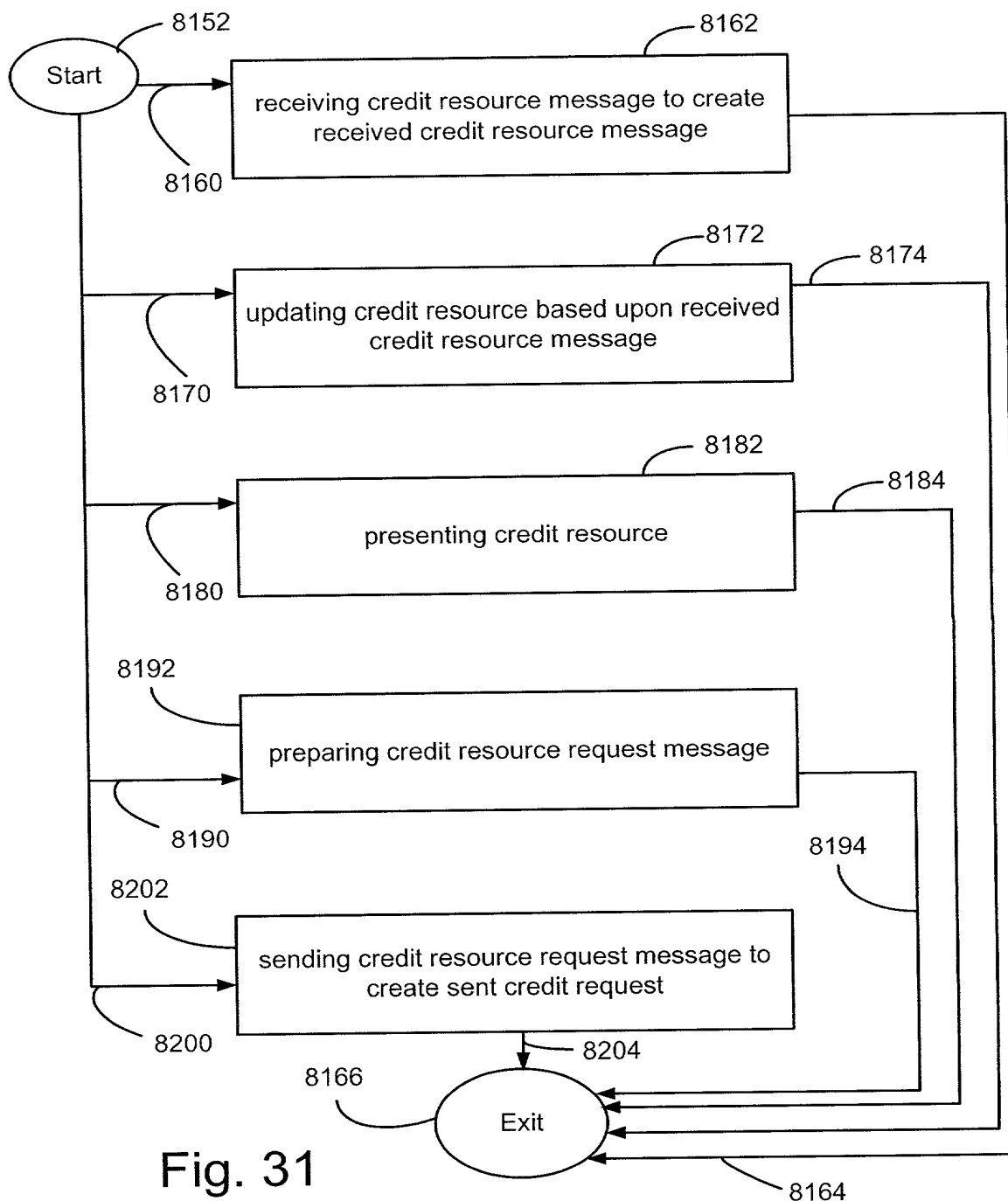
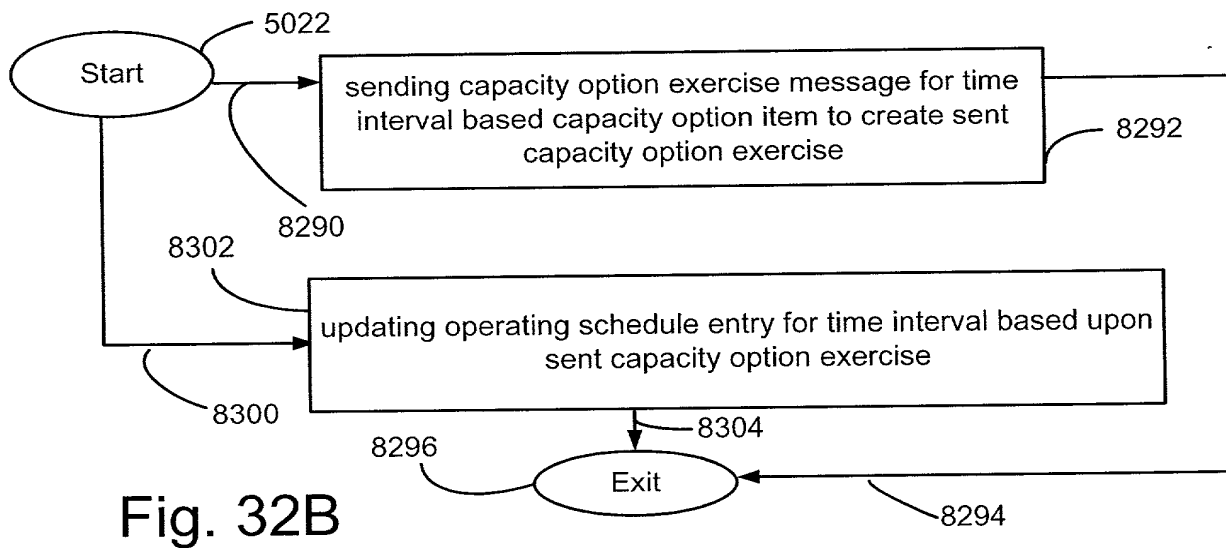
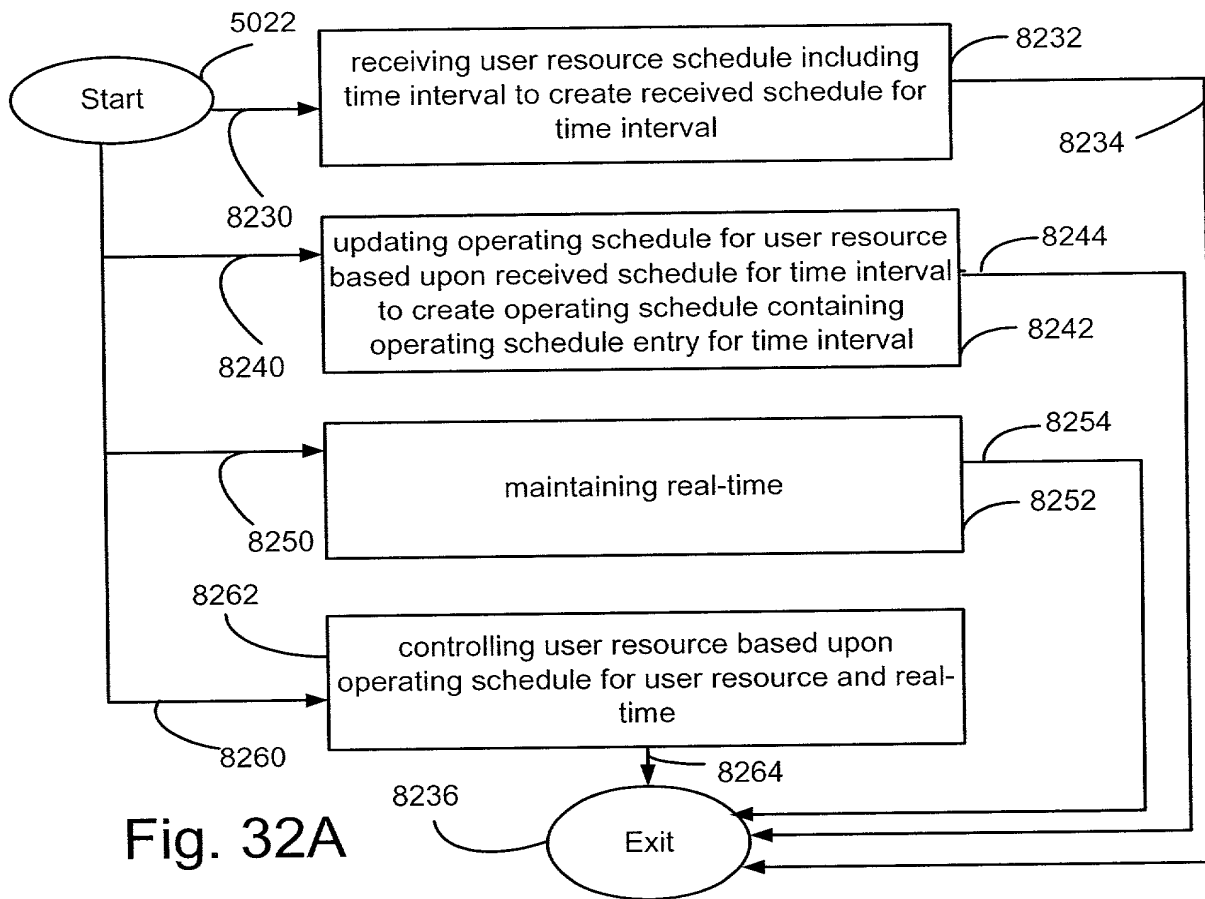


Fig. 29







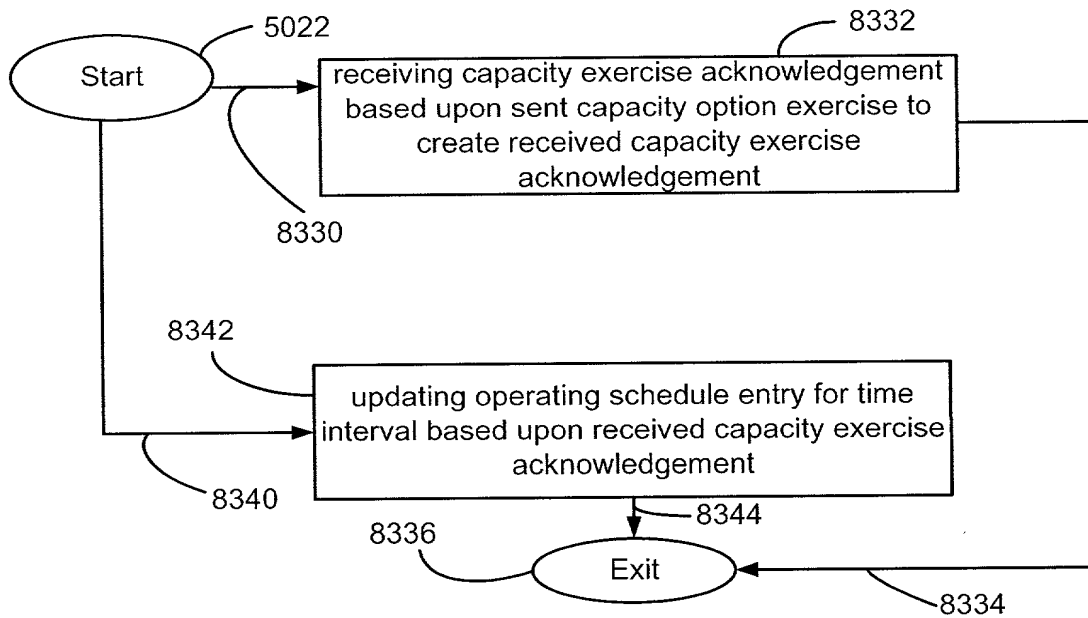


Fig. 33A

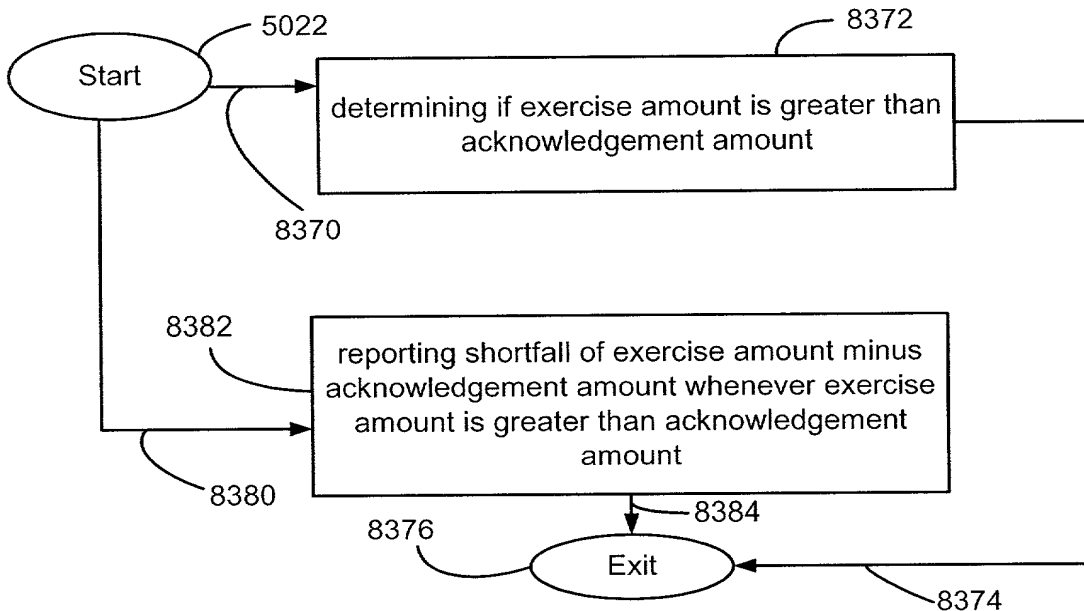


Fig. 33B

